



VLAAMSE OVERHEID

DEPARTEMENT MOBILITEIT EN OPENBARE WERKEN

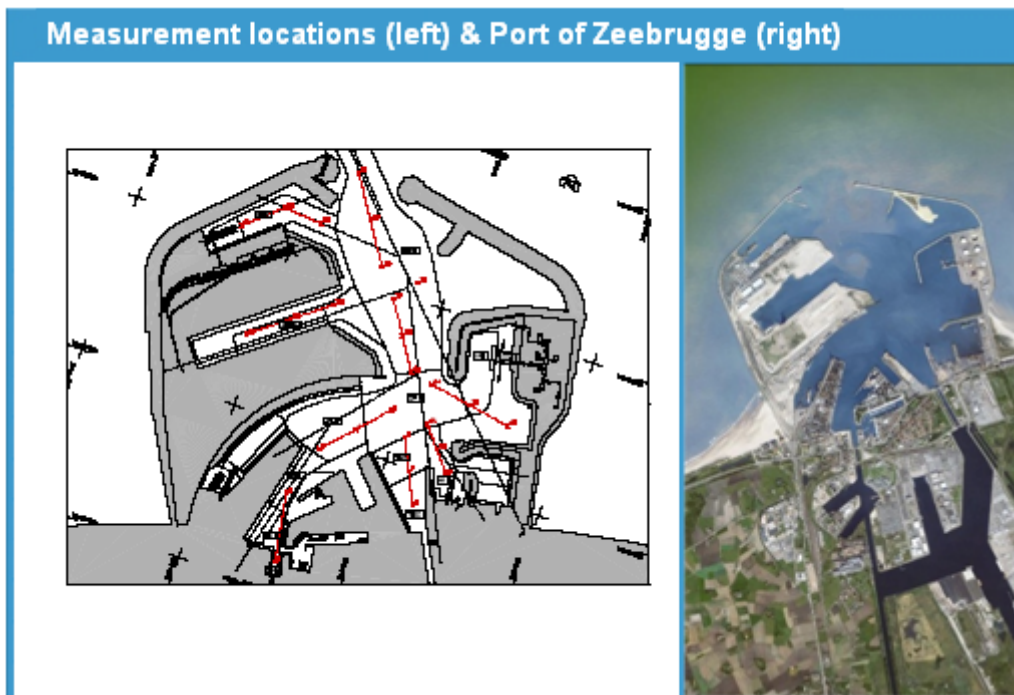
WATERBOUWKUNDIG LABORATORIUM

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**Langdurige monitoring van zout/zoet-verdeling in de haven van Zeebrugge en monitoring van zoutconcentratie, slibconcentratie en hooggeconcentreerde slibsuspensies in de Belgische kustzone**

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Measurement locations (left) & Port of Zeebrugge (right)



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**Salinity profiling during 2007-2008 in the harbour of Zeebrugge**

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Photo coversheet: Left: Planview of salinity profiling points; Right: Aerial photo of the harbour of Zeebrugge

International Marine & Dredging Consultants

Address: Coveliersstraat 15, 2600 Antwerp, Belgium

: + 32 3 270 92 95

: + 32 3 235 67 11

Email: [info@imdc.be](mailto:info@imdc.be)

Website: [www.imdc.be](http://www.imdc.be)

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## Document Identification

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## Distribution List

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## Table of Contents

<b>1. INTRODUCTION.....</b>	<b>1</b>
1.1. THE ASSIGNMENT .....	1
1.2. AIM OF THE STUDY .....	1
1.3. OVERVIEW OF THE STUDY .....	1
1.3.1. HCBS Zeebrugge reports.....	1
1.4. STRUCTURE OF THE REPORT .....	2
<b>2. DESCRIPTION OF THE MEASUREMENT CAMPAIGN .....</b>	<b>3</b>
2.1. DESCRIPTION OF THE PROJECT AREA.....	3
2.2. DESCRIPTION OF THE INSTRUMENTS .....	4
<b>3. PROCESSING OF DATASETS .....</b>	<b>6</b>
3.1. SALINITY .....	6
3.2. FRESH WATER DISCHARGE.....	6
3.3. REMARKS ON THE DATA .....	6
3.4. GENERATED OUTPUT .....	6
<b>4. PRELIMINARY ANALYSIS OF DATASETS.....</b>	<b>7</b>
4.1. SALINITY DISTRIBUTION (ANNEX C, ANNEX D & ANNEX E).....	7
4.2. SALINITY CROSS SECTION (ANNEX F).....	9
4.3. SALINITY TIMESERIES (ANNEX G) .....	9
4.4. RELATIONSHIP FRESH WATER DISCHARGE - SALINITY.....	9
<b>5. REFERENCES.....</b>	<b>14</b>

## Annexes

<b>ANNEX A</b>	<b>MAP WITH THE THEORETICAL MEASUREMENT LOCATIONS.....</b>	<b>19</b>
<b>ANNEX B</b>	<b>UNESCO PPS-78 FORMULA FOR CALCULATING SALINITY.....</b>	<b>21</b>
<b>ANNEX C</b>	<b>TECHNICAL SPECIFICATIONS OF MEASUREMENT INSTRUMENTS ....</b>	<b>23</b>
C.1	YSI 600R .....	24
B.2.	YSI 600 OMS.....	25
<b>ANNEX D</b>	<b>HORIZONTAL SALINITY DISTRIBUTION IN THE PORT OF ZEEBRUGGE IN THE MIDDLE OF THE WATER COLUMN .....</b>	<b>26</b>
<b>ANNEX E</b>	<b>HORIZONTAL SALINITY DISTRIBUTION IN THE PORT OF ZEEBRUGGE NEAR THE BOTTOM</b>	<b>28</b>
<b>ANNEX F</b>	<b>HORIZONTAL SALINITY DISTRIBUTION IN THE PORT OF ZEEBRUGGE NEAR THE WATER SURFACE .....</b>	<b>30</b>
<b>ANNEX G</b>	<b>CROSS SECTION OF THE SALINITY DISTRIBUTION THROUGHOUT THE WATERCOLUMN ALONG THE PORT OF ZEEBRUGGE .....</b>	<b>32</b>
<b>ANNEX H</b>	<b>TIMESERIES PER LOCATION OF THE SALINITY DISTRIBUTION THROUGHOUT THE WATERCOLUMN.....</b>	<b>34</b>

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## List of Tables

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TABLE 2-1: MEASUREMENT LOCATIONS INSIDE ZEEBRUGGE HARBOUR AND PERIODS FOR THE DIFFERENT MEASUREMENT (01/01/2007 – 31/07/2007) .....	3
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## List of figures

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FIGURE 2-1 THEORETICAL MEASUREMENT LOCATIONS .....	3
FIGURE 4-1 SALINITY DISTRIBUTION NEAR THE BOTTOM AT 27/02/2007 .....	7
FIGURE 4-2 SALINITY DISTRIBUTION NEAR THE WATER SURFACE AT 15/02/2007 DURING LOW WATER .....	8
FIGURE 4-3 SALINITY DISTRIBUTION NEAR THE WATER SURFACE AT 19/03/2008 3 HOURS AFTER LOW WATER .....	9
FIGURE 4-4 SALINITY MEASURED AT LOCATION 06 VS. FRESH WATER DISCHARGE SPILLED IN ZEEBRUGGE FROM SCHIPDONKKANAAL AND LEOPOLDKANAAL.....	10
FIGURE 4-5 SALINITY MEASURED AT LOCATION 09 VS. FRESH WATER DISCHARGE SPILLED IN ZEEBRUGGE FROM SCHIPDONKKANAAL AND LEOPOLDKANAAL.....	10
FIGURE 4-6 SALINITY GRADIENT MEASURED BETWEEN LOCATION 09 AND LOCATION 21 NEAR THE WATER SURFACE VS. FRESH WATER DISCHARGE SPILLED IN ZEEBRUGGE FROM SCHIPDONKKANAAL AND LEOPOLDKANAAL .....	11
FIGURE 4-7 SALINITY GRADIENT MEASURED BETWEEN LOCATION 09 AND LOCATION 21 IN THE MIDDLE OF THE WATERCOLUMN VS. FRESH WATER DISCHARGE SPILLED IN ZEEBRUGGE FROM SCHIPDONKKANAAL AND LEOPOLDKANAAL .....	11

## 1. INTRODUCTION

### 1.1. The assignment

This report is part of the set of reports describing the results of the study “Long term monitoring of salinity gradients in the harbour of Zeebrugge and monitoring of salinity, suspended sediment concentration and high concentration benthic suspensions in the Belgian coastal zone”.

The terms of reference for this study were prepared by the ‘Departement Mobiliteit en Openbare Werken van de Vlaamse Overheid, Waterbouwkundig Laboratorium’ (16EB/05/10). The study was awarded to International Marine and Dredging Consultants NV in association with WL|Delft Hydraulics and Gems International and started on the 7<sup>th</sup> of June 2006.

Maritieme Dienstverlening Kust – Vlaamse Hydrografie provided hydro-meteo data.

The settling velocity measurements with INSSEV were subcontracted to the Coastal Processes Research Group (SEOES, University of Plymouth), with team leader Dr Andrew Manning.

IMDC N.V. was asked by Afdeling Maritime Toegang to perform an additional task in this project. This extra task comprises the processing and reporting of additional salinity profiles that were performed by GEMS in the harbour of Zeebrugge at 27 different locations throughout 2007 & 2008.

### 1.2. Aim of the study

For the global purpose of the study we refer to IMDC (2007v)

The aim of this study is to present all these performed salinity measurements, with the main focus of the distribution of salinity gradients throughout the harbour and throughout time.

### 1.3. Overview of the study

#### 1.3.1. HCBS Zeebrugge reports

The study consists of two separate surveys. The first survey was conducted in autumn-winter 2006-2007, the second survey was held in summer 2007.

In situ calibrations were conducted on several dates to calibrate all turbidity and conductivity sensors.

An overview of the reports is given in Table 1-1.

Table 1-1: Overview of HCBS Zeebrugge Reports

Report Description	
<b>Calibration</b>	
1	Calibration report (I/RA/11292/07.019/JME)
<b>Ambient conditions Zeebrugge and Belgian coastal zone</b>	
2.1	Ambient conditions Zeebrugge and Belgian coastal zone July 06 - December 06 (I/RA/11292/07.020/JME)
2.2	Ambient conditions Zeebrugge and Belgian coastal zone January 07 - August 07 (I/RA/11292/07.021/JME)
2.3	Analysis of ambient conditions Zeebrugge and Belgian coastal zone July 06 - August 07 (I/RA/11292/07.022/JME)
<b>Through tide measurements harbour Zeebrugge</b>	
3.1	Through tide Siltprofiler and CTD-OBS measurements Autumn 2006 (I/RA/11292/07.023/JME)
3.2	Through tide Siltprofiler and CTD-OBS measurements Summer 2007 (I/RA/11292/07.024/JME)
<b>INSSEV</b>	
4	Settling Velocity - INSSEV - Autumn 2006 (I/RA/11292/07.025/JME)

Report Description	
<b>HCBS Near bed continuous monitoring Belgian coastal zone (Frames)</b>	
5.1	HCBS Near bed continuous monitoring Belgian coastal zone Autumn-Winter 2006 (I/RA/11292/07.026/JME)
5.2	HCBS Near bed continuous monitoring Belgian coastal zone Summer 2007 (I/RA/11292/07.027/JME)
<b>Through tide measurements Belgian coastal zone Winter 2007</b>	
6.1	Through tide Siltprofiler measurements 30/01/07 Pas van het Zand (I/RA/11292/07.028/JME)
6.2	Through tide Siltprofiler measurements 07/02/07 Scheur (I/RA/11292/07.029/JME)
<b>Through tide measurements Belgian coastal zone Summer 2007</b>	
7.1	Through tide Siltprofiler & Sediview measurements 31/07/07 Entrance harbour during spring tide (I/RA/11292/07.033/JME)
7.2	Through tide Siltprofiler & Sediview measurements 07/08/07 Entrance harbour during neap tide (I/RA/11292/07.034/JME)
7.3	Through tide Siltprofiler & Sediview measurements 01/08/07 Pas van het Zand (I/RA/11292/07.035/JME)
7.4	Through tide Siltprofiler & Sediview measurements 03/08/07 Wielingen (I/RA/11292/07.036/JME)
7.5	Through tide Siltprofiler & Sediview measurements 02/08/07 Scheur (I/RA/11292/07.037/JME)
<b>Analysis</b>	
8	Report concerning the presence of HCBS layers in the Belgian coastal zone (I/RA/11292/07.038/JME)
<b>Extra Reports</b>	
	Comparison Rheotune and Navitracker (I/RA/11292/09.017/ABR)
	Salinity profiling during 2007-2008 in the harbour of Zeebrugge (I/RA/11292/10.123/BQU)

This report describes all the salinity profiles, taken in the harbour of Zeebrugge, in the period of 2007 and 2008.

#### 1.4. [Structure of the report](#)

The first chapter comprises an introduction. This is followed by a description of the measurement campaign in chapter 2. Chapter 3 describes the data processing technique. An analysis of the observed salinities as well as the vertical and horizontal salinity gradients and their relation with the fresh water discharge from the Leopoldkanaal and Schipdonkkanaal into the harbour follows in chapter 4.

## 2. DESCRIPTION OF THE MEASUREMENT CAMPAIGN

### 2.1. Description of the project area

Between 15/01/2007 and 31/08/2008, 57 different measurement campaigns were performed in the harbour of Zeebrugge. During each campaign, CTD profiles were taken at 27 fixed locations. These 27 fixed measurement locations are presented in Annex A, Figure 2-1 and the coordinates of each location are listed in Table 2-1.

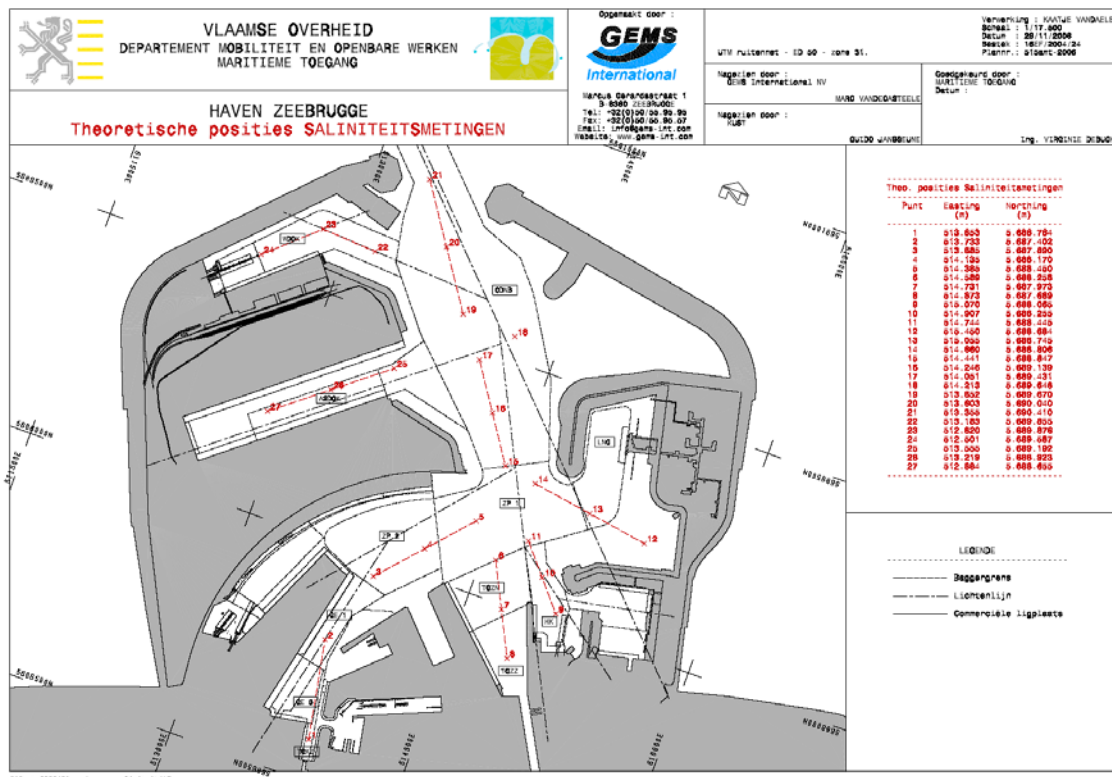


Figure 2-1 Theoretical measurement locations

Table 2-1: Measurement locations inside Zeebrugge harbour

Location	UTM-ED50 X	UTM ED50 Y
01	513853	5686764
02	513733	5687402
03	513885	5687890
04	514135	5688170
05	514385	5688450
06	514589	5688258
07	514731	5687973
08	514873	5687689
09	515070	5688065
10	514907	5688255

<b>Location</b>	<b>UTM-ED50 X</b>	<b>UTM ED50 Y</b>
11	514744	5688445
12	515450	5688684
13	515055	5688745
14	514660	5688806
15	514441	5688847
16	514246	5689139
17	514051	5689431
18	514213	5689648
19	513852	5689670
20	513603	5690040
21	513355	5690410
22	513183	5689855
23	512820	5689876
24	512501	5689587
25	513555	5689192
26	513129	5688923
27	512884	5688655

## 2.2. Description of the instruments

The measurements were executed by GEMS nv, by means of an YSI 600R CTD profiler. After 10/09/2007, the instrument was replaced by a YSI 600OMS. Both instruments measure temperature (°C), conductivity (µS/cm) and absolute pressure (m). The conductivity logged by the YSI 600R is recorded as being a standard conductivity, relative to the present temperature. However, the conductivity as recorded by the YSI 600OMS is the specific conductivity. This specific conductivity is the standard conductivity, converted to a reference temperature of 25°C. Further specifications of both instruments are listed in Annex C.

At each location, the instrument was lowered from the surveyvessel to acquire a complete profile from the watersurface to the bottom.

## 2.3. Description of the different campaigns

In total, 44 campaigns were executed. Table 2-2 gives an overview of the different campaigns and during which phase of the tide each campaign was performed. The campaign of 07 february 2008 could not be processed because conductivity was not measured correctly due to pollution on the sensor.

data [yyyymmdd]	time to HW	phase of tide	Q [m³/s]	data [yyyymmdd]	time to HW	phase of tide	Q [m³/s]
20070115	-6:24	eb	4.08	20071010	2:21	eb	0.8
20070123	-0:25	flood	34.65	20071019	3:31	eb	1.49
20070129	6:14	eb	5.07	20071024	-1:23	flood	1.03
20070215	-5:52	LW	42.54	20071030	-3:13	flood	0.82
20070220	0:48	HW	2.74	20071115	-0:14	HW	4.23
20070227	6:15	eb	23.71	20071129	-3:04	flood	2.31

data [yyyymmdd]	time to HW	phase of tide	Q [m <sup>3</sup> /s]	data [yyyymmdd]	time to HW	phase of tide	Q [m <sup>3</sup> /s]
20070305	1:38	eb	39.52	20071205	-0:29	flood	6.63
20070312	-1:43	flood	5.44	20071214	-1:19	flood	35.72
20070326	-3:06	flood	2.83	20080111	6:25	LW	29.32
20070402	1:25	eb	1.63	20080114	-5:43	LW	23.63
20070413	5:53	LW	0.65	20080123	-2:25	flood	12.41
20070426	-1:25	flood	3.3	20080131	1:05	eb	1.46
20070514	-1:21	flood	0	20080207	no data available		
20070524	-4:34	LW	1.82	20080214	-4:25	flood	1.11
20070602	5:32	eb	4.44	20080227	-6:09	LW	0.54
20070605	-2:15	flood	0.36	20080307	-0:41	flood	7.97
20070611	2:51	eb	0.39	20080313	-1:18	flood	40.89
20070619	-0:27	flood	0.58	20080319	-3:14	flood	26.88
20070628	-2:46	flood	1.86	20080415	-2:25	flood	10.38
20070704	-0:58	flood	8.62	20080421	4:31	eb	1.85
20070730	-5:48	LW	22.84	20080515	-2:45	flood	0.62
20070823	6:28	LW	20.23	20080523	-0:46	HW	0.19
20070831	-3:55	flood	0.11	20080604	-1:53	flood	23.54
20070907	1:07	eb	1.06	20080612	-2:25	flood	0.13
20070913	-1:11	flood	0.44	20080702	0:46	eb	0.21
20070920	6:17	LW	9.12	20080711	4:48	eb	0.43
20070925	1:34	eb	0.57	20080808	0:44	HW	17.6
20071004	-3:41	flood	24.81	20080819	2:39	eb	1.03

Table 2-2 Overview of the different measured campaigns

### 3. PROCESSING OF DATASETS

#### 3.1. Salinity

Salinity was computed according to the Unesco PPS-78 formula (Annex A). Because the 2 instruments did not record the same conductivity, the standard conductivity and the recorded temperature were implemented in the Unesco PPS-78 formula for the YSI 600R. While for the YSI 600OMS, only the specific conductivity was a variable input, but the temperature input was kept constant (25°C).

#### 3.2. Fresh water discharge

The daily discharge in the Leopoldkanaal and Schipdonkkanaal were provided by "Hydrologisch Informatie Centrum of the Ministerie van de Vlaamse Gemeenschap – Departement Leefmilieu en Infrastructuur Afdeling Waterbouwkundig Laboratorium". These two discharges were added up to retrieve the total amount of fresh water spilled in the port of Zeebrugge.

#### 3.3. Remarks on the data

There is a shift in the salinity data between 7 and 13 september 2007, because at 10 september 2007, the YSI 600R was replaced by an YSI 600OMS. Salinity values before and after 10 september 2007 do not match perfectly because the parameters are measured by 2 different instruments and also because both instruments do not measure identical conductivities (see 2.2).

On 7/02/2008, extremely low salinity values were recorded at all 27 locations. Possibly, the sensor was polluted. Since all data of that day is corrupt, all data measured on 7/02/2008 has been rejected and therefore not implemented in further figures or analysis.

#### 3.4. Generated output

The distribution of salinity in the port of Zeebrugge is presented in the figures in Annex D, Annex E and Annex F. In these annexes, all measurements are arranged chronologically. Per measurement day, the tidal window is presented during which the measurements were taken. Annex D presents for each profile the salinity measured at 50% of the total depth at that location. The salinity for each location near the bottom and near the watersurface is respectively given in Annex E and Annex F.

In Annex G, a cross section per measurement day of salinity profiles along the north-south axis in the port is given. This transect consists of the following points: 21, 20, 19, 17, 16, 15, 6, 7 & 8.

Per location, timeseries of salinity over the complete measurement period are given in Annex H. Per location and per measurement day, the minimum and maximum salinity over the whole watercolumn are given. Also the averaged salinity over each waterdepth of 2 meter is given. Finally, fresh water discharge is presented, in order to retrieve possible relations between the amount of spilled fresh water and the occurrence of low salinity values.



#### 4. PRELIMINARY ANALYSIS OF DATASETS

Changes in salinity lead to density difference in the water column, which in some circumstances can lead to density driven flow patterns. The physics of these density driven flows depend on the amount and the nature of the density gradients that are present. In well-mixed situations, there are mainly horizontal salinity gradients, whereas in stratified situations, large vertical salinity gradient may exist.

In this chapter, salinity values will be discussed and related to fresh waters spillings in the port of Zeebrugge.

##### 4.1. Salinity distribution (Annex D, Annex E & Annex F)

Throughout the measurement campaign, the salinity near the bottom and the middle of the watercolumn ranges between 32 and 37 ppt. This variation is mainly tidal based and slightly influenced by fresh water spillings.

Between the different locations, the salinity near the bottom and in the middle of the watercolumn is the same at a given time. Therefore, one can conclude that the salinity distribution throughout the watercolumn is very homogenous in the port of Zeebrugge, except for the surface water. This is also illustrated in Figure 4-1, a typical figure (extracted from Annex E) for the distribution of salinity within the port near the bottom and in the middle of the watercolumn. Variation of salinity between these locations is very limited, except for location 12, where sometimes slightly lower salinity values occur. This is due to the low waterdepth at location 12. As a result the middle of the watercolumn is still close to the watersurface and therefore influenced by the surface water.

Also, low salinities are measured at Wielingendok near the bottom: ( 30/10/2007 (Location 24); 13/03/2008 (Location 24). It can be that these low values are also caused by the relative low waterdepths in the dock. The low measurements from 14/02/2008 (Location 23 & 22) are possible not correct and caused by pollution of the conductivity sensor.

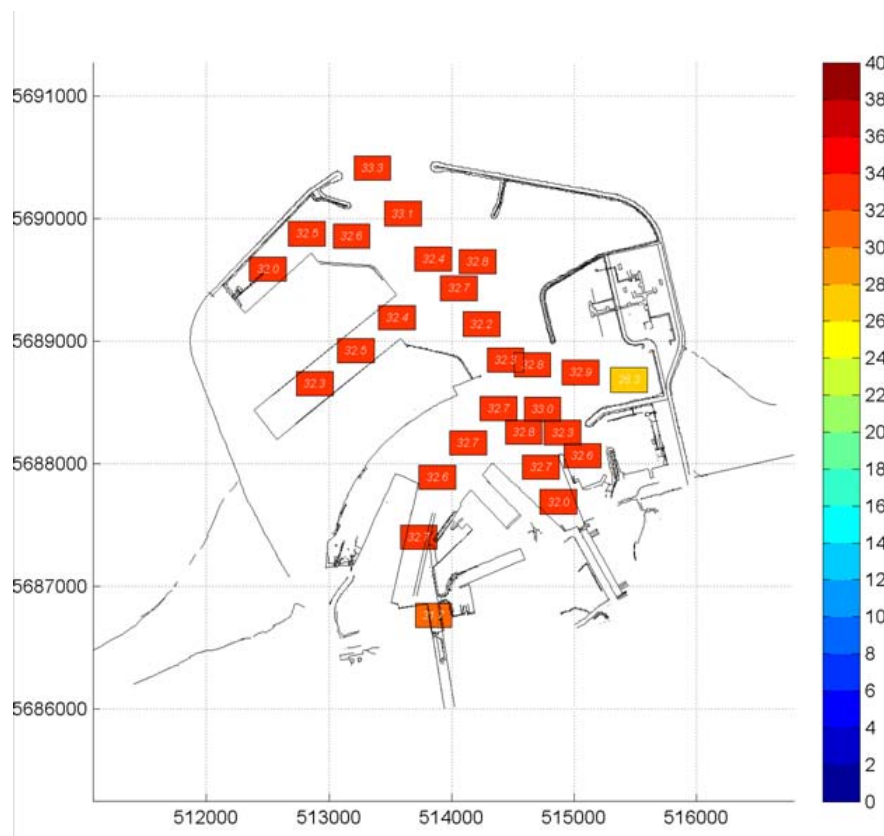


Figure 4-1 Salinity distribution near the bottom at 27/02/2007

Near the surface, much lower salinity values were measured than in the rest of the watercolumn. In the first meter under the watersurface, salinity varies between 3.5 and 37 ppt. This variation is mainly caused by fresh water spillings of "Schipdonkkanaal" and "Leopoldskanaal", because the lowest salinity values are recorded near the outlet (location 9, 10 and 11). (see Figure 4-2)

The fresh water spillings only occur around low water, therefore the distribution of the fresh water is tide related. At 15/02/2007, salinity profiles were taken during low water and fresh water spilling. The lowest salinities and highest gradients throughout the whole campaign were measured that day (see Figure 4-2).

At 19/03/2008, salinity profiles were taken 3 hours after low water and fresh water spilling. Compared to 15/02/2007, the lowest salinities are less pronounced and more distributed in the southern part of the harbour (Figure 4-3).

When there are no fresh water spillings, the variation of salinity between the different measurement locations is very limited.

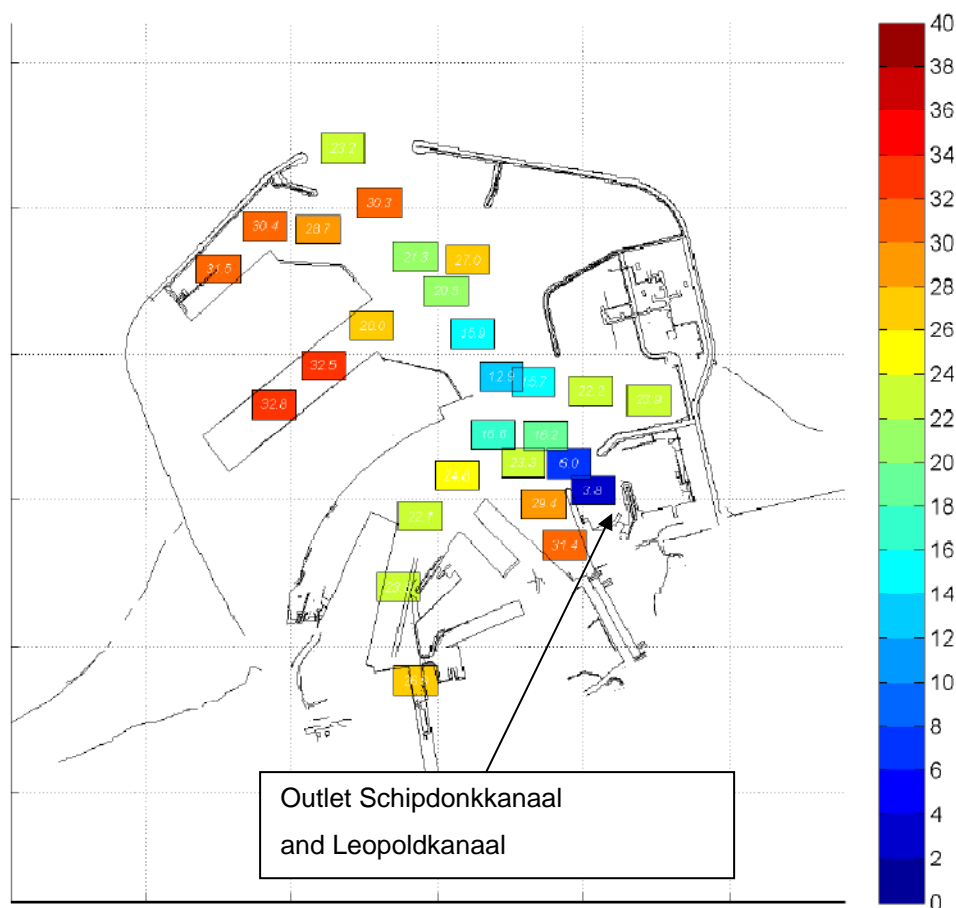


Figure 4-2 Salinity distribution near the water surface at 15/02/2007 during low water

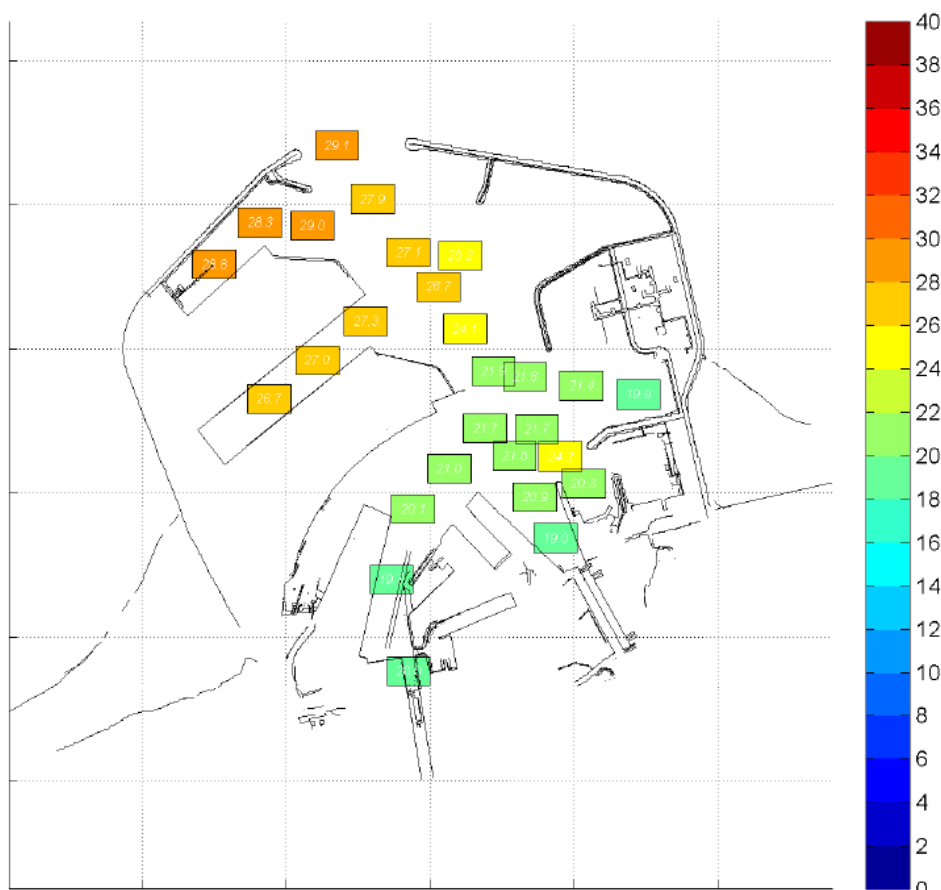


Figure 4-3 Salinity distribution near the water surface at 19/03/2008 3 hours after low water

#### 4.2. Salinity cross section (Annex G)

The salinity cross section figures confirm that the lowest salinities occur near the watersurface. During fresh water spills, there is clear horizontal and vertical gradient visible. The horizontal gradient with lower salinities in the inner port and higher salinities to the seaside is only visible just after a fresh water spilling. The vertical gradients last longer, especially in the southern part of the harbor. When there is no freshwater spilling, salinities tend to be higher and more homogeneous.

#### 4.3. Salinity timeseries (Annex H)

The timeseries show a clear relationship between the minimum salinities that were measured and the fresh waterspillings for all 21 locations. For the locations further from the fresh water outlet, no lower salinities are visible in the depth averaged salinities over 2m. For the locations closer to the fresh water outlet, lower salinities were measured between -2 and 0 m TAW during periods of higher fresh water discharges. During March 2008, when there was almost continuously fresh water spilled, lower salinities were also measured between -4 and -2 m TAW, but only at the locations nearby the outlet.

#### 4.4. Relationship fresh water discharge - salinity

Because the tide can also have an effect on the salinity, the results of all the measurement campaigns are grouped per tidal phase (eb, LW, flood and HW).

At almost all the locations, no clear relation can be seen between spilled discharge and salinity (as shown for location 06 in Figure 4-4). Only for locations 09, 10 and 11, which are situated near the spill location, there is a visible effect of the fresh water and then only near the surface (Figure 4-5). The effect of the fresh water spilling on the salinity is strongest during eb and during LW. During flood, there is some effect visible, but not always. During high water, no influence of the spilling on the salinity can be seen.

This relationship is not very strong because of the tidal effect. The degree of salinity dropping depends on the time of the measurements relative to the timing of the spillings. Measurements that were taken just after the spilling will be more influenced than the profiles that were taken a few hours after the spilling. While the profiles that were taken around high water show no fresh water influence at all.

Horizontal gradients were calculated throughout the port between location 09 and location 21. Maximal gradients were measured near the surface. The higher gradients occur during days of high spillings, but no clear relationship between spilled discharge and gradient can be extracted (Figure 4-6).

Deeper in the water column, the gradients are much smaller, but there is still a gentle positive gradient between the inner harbour and the mouth (Figure 4-7). At these depths however, the effect of the water spilling seems to be very small.

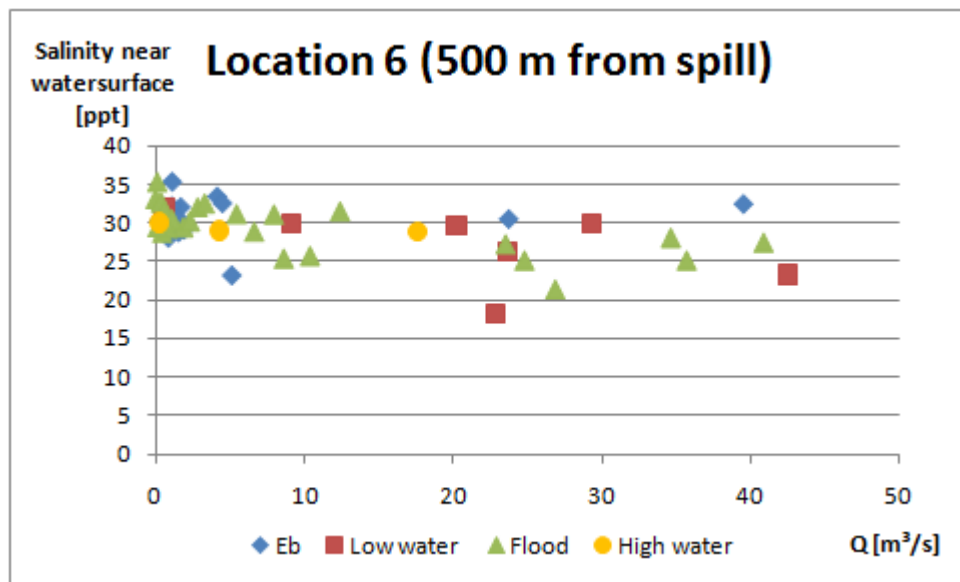


Figure 4-4 Salinity measured at location 06 (500 m from the spill) near the surface vs. fresh water discharge spilled in Zeebrugge from Schipdonkkanaal and Leopoldkanaal

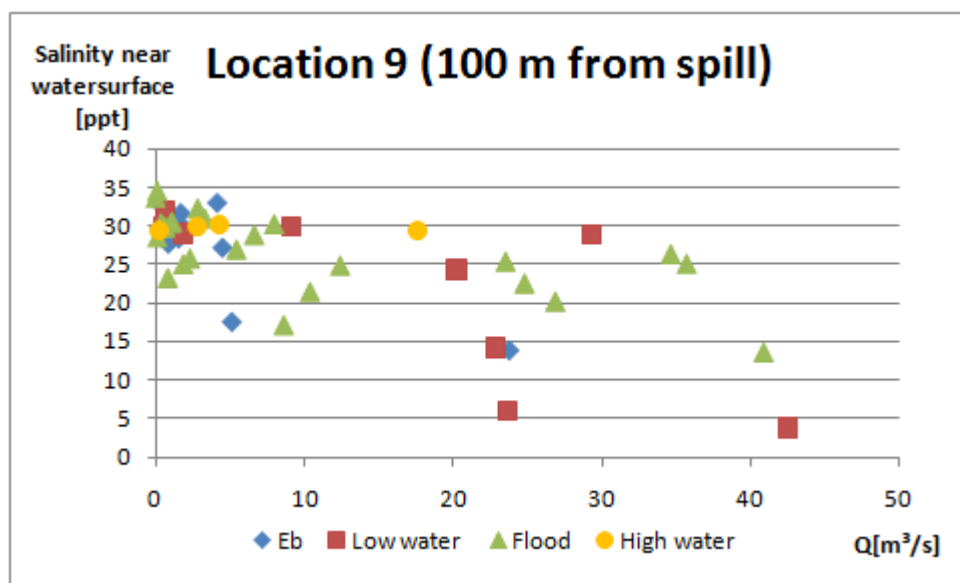


Figure 4-5 Salinity measured at location 09 (upper port) near the surface vs. fresh water discharge spilled in Zeebrugge from Schipdonkkanaal and Leopoldkanaal

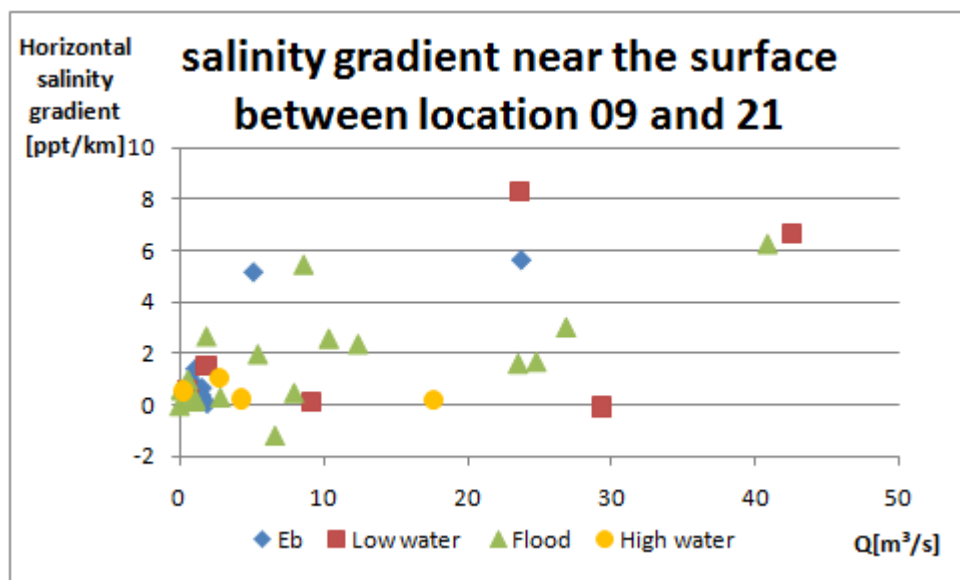


Figure 4-6 Salinity gradient measured between location 09 (upper port )and location 21(mouth) near the water surface vs. fresh water discharge spilled in Zeebrugge from Schipdonkkanaal and Leopoldkanaal

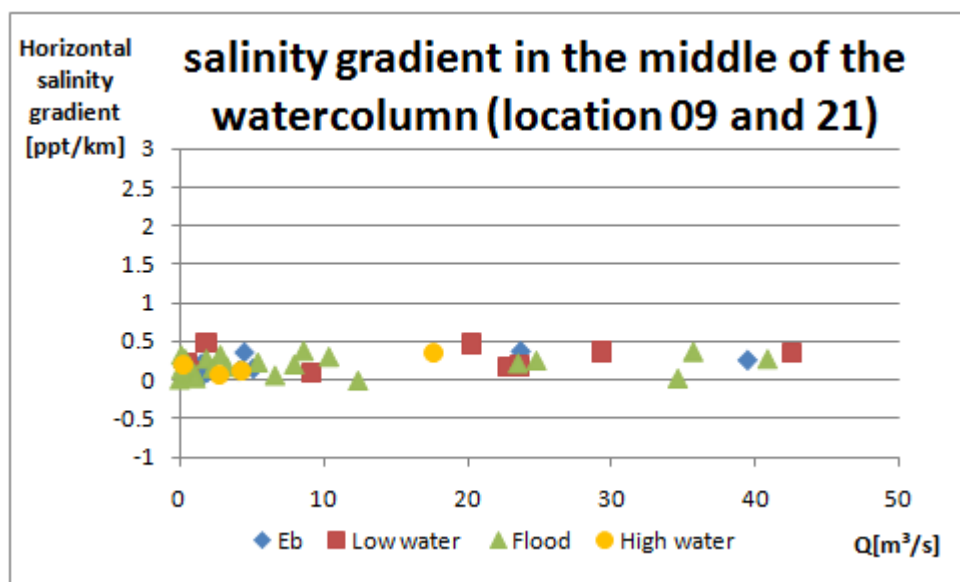


Figure 4-7 Salinity gradient measured between location 09 (upper port )and location 21(mouth) in the middle of the watercolumn vs. fresh water discharge spilled in Zeebrugge from Schipdonkkanaal and Leopoldkanaal

From previous figures, it is clear that the time of the measurement relative to the tide is very crucial in analyzing whether there is an effect of the fresh water discharge and the salinity. Therefore, all salinities measured near the surface at 3 relevant location throughout the harbor were grouped by low fresh water spilling conditions ( $Q < 10 \text{ m}^3/\text{s}$ ) and high fresh water spilling conditions ( $Q > 10 \text{ m}^3/\text{s}$ ).  $10 \text{ m}^3/\text{s}$  was chosen as border, because previous figures show response from that value.

Each dataset was then ranked according to the time the measurement was performed relative to high water [HW]. The results are presented in Figure 4-8 and Figure 4-9.

During low fresh water spillings, there is not much difference between salinity at the different locations. Only around LW, slightly lower salinities are measured near the spill.

During high fresh water spillings, there is clearly a big drop in salinity near the spill at the water surface around low water [LW]. Further from the spill (500 m), there is still some fresh water visible, but clearly less than near the spill.

During flood, the very low salinities near the spill are smoothing out, so there is almost no difference anymore between 100 m and 500 m from the spill. These locations however are still showing a clear gradient towards the mouth of the harbor.

Once HW has been reached, approximately 6 to 8 hours after the spilling, all the low salinities have disappeared.

During eb, no measurements were performed at high spilling conditions, so no conclusions can be made. It can be expected that during most of the eb, no low salinities will be found, only towards the end of the eb-phase, when the spilling starts, low salinities can be expected again near the spill.

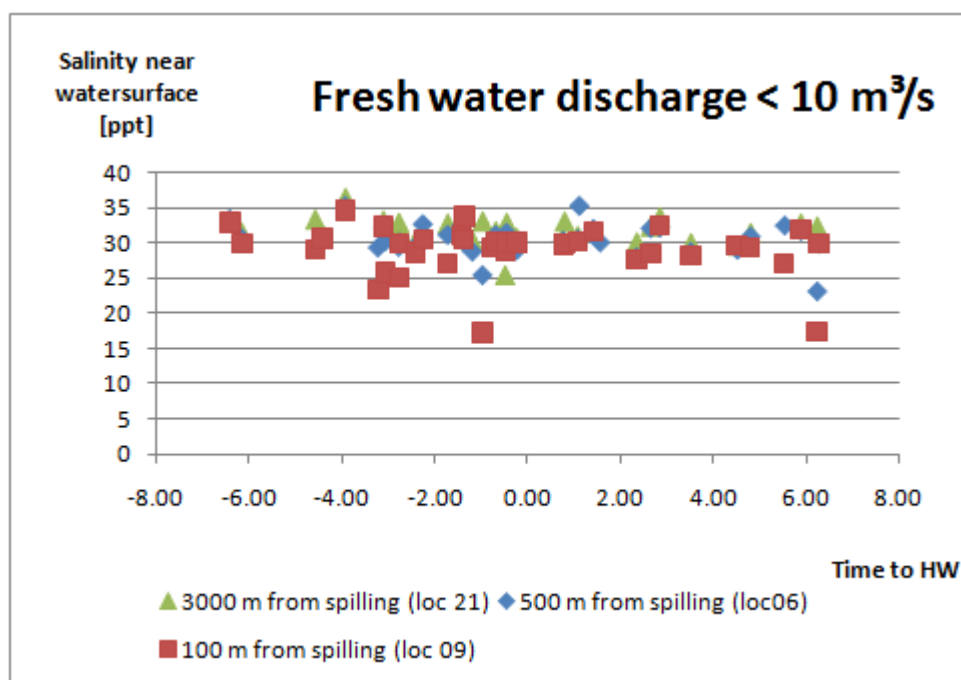


Figure 4-8 Salinity measured near the surface throughout the harbor during low fresh water spillings (<10m<sup>3</sup>)

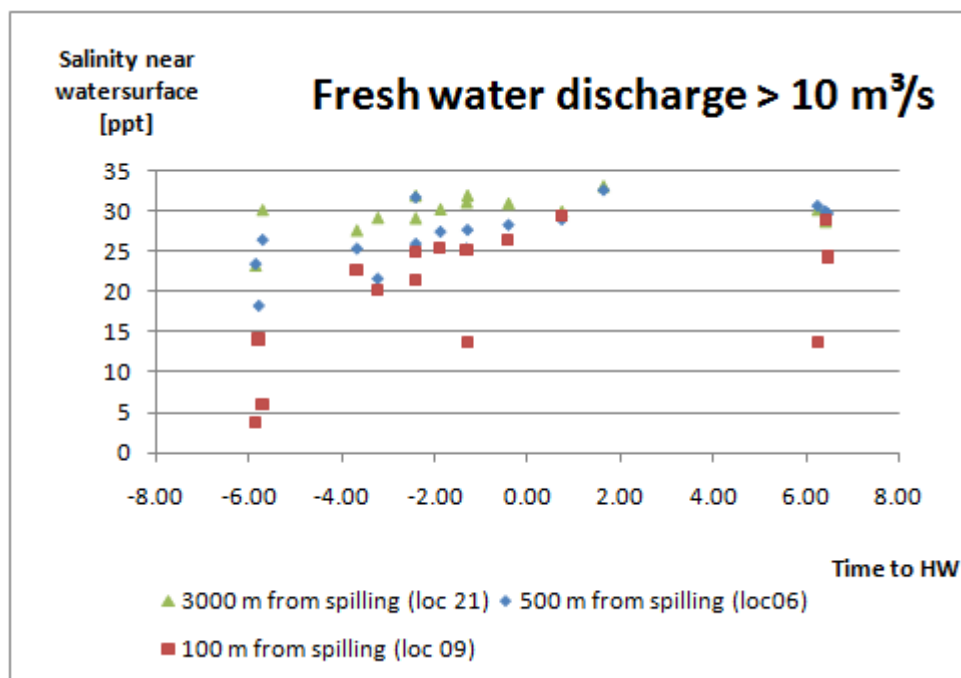


Figure 4-9 Salinity measured near the surface throughout the harbor during high fresh water spillings (>10m<sup>3</sup>)





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IMDC (2007ab) Langdurige monitoring van zout/zoet-verdeling in de haven van Zeebrugge en monitoring van zoutconcentratie, slibconcentratie en hooggeconcentreerde slibsuspensies in de Belgische kustzone. Deelrapport 4: Settling Velocity - INSSEV - Autumn 2006 (I/RA/11292/07.025/JME)

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## **Annex A    Map with the theoretical measurement locations**







VLAAMSE OVERHEID  
DEPARTEMENT MOBILITEIT EN OPENBARE WERKEN  
MARITIEME TOEGANG



Opgemaakt door :

**GEMS**  
International

Marcus Gerardstraat 1  
B-8380 ZEEBRUGGE  
Tel: +32(0)50/55.95.95  
Fax: +32(0)50/55.95.57  
Email: info@gems-int.com  
Website: www.gems-int.com

UTM ruitennet - ED 50 - zone 31.

Nagezien door :  
GEMS International NV

MARC VANDECASTEELE

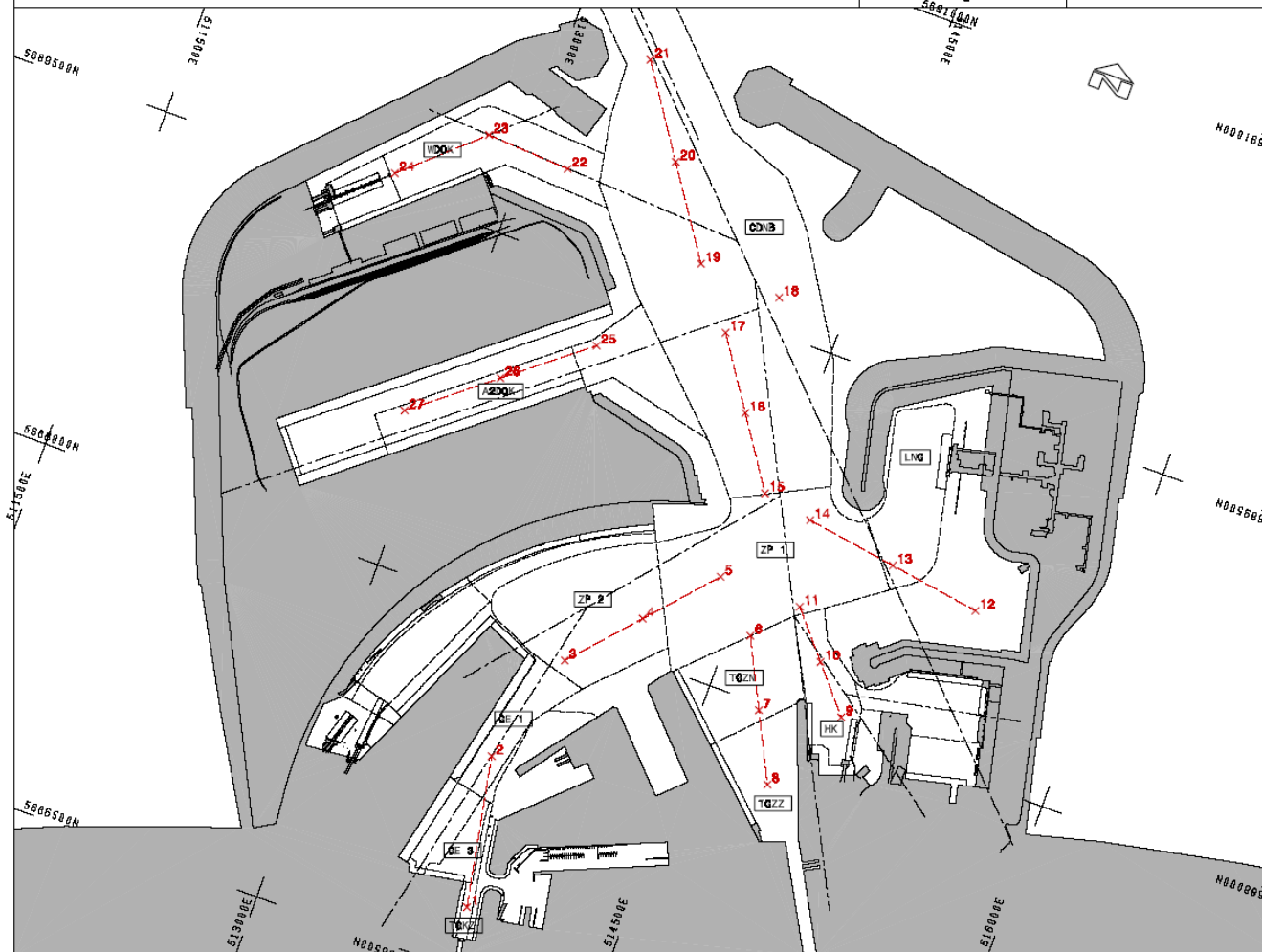
Nagezien door :  
KUST

GUIDO JANSSEUNE

Goedgekeurd door :  
MARITIEME TOEGANG  
Datum :

Ing. VIRGINIE DEBUCK

## HAVEN ZEEBRUGGE Theoretische posities SALINITEITSMETINGEN



### Theo. posities Saliniteitsmetingen

Punt	Easting (m)	Northing (m)
1	513.853	5.688.784
2	513.733	5.687.402
3	513.685	5.687.690
4	514.135	5.688.170
5	514.385	5.688.460
6	514.588	5.688.258
7	514.731	5.687.973
8	514.873	5.687.689
9	515.070	5.688.065
10	514.907	5.688.255
11	514.744	5.688.445
12	515.480	5.688.684
13	515.055	5.688.745
14	514.880	5.688.806
15	514.441	5.688.847
16	514.246	5.689.139
17	514.051	5.689.431
18	514.213	5.689.648
19	513.852	5.689.670
20	513.603	5.690.040
21	513.355	5.690.410
22	513.183	5.689.855
23	512.820	5.689.878
24	512.601	5.689.687
25	513.555	5.689.192
26	513.219	5.688.923
27	512.884	5.688.655

### LEGENDE

- Beggergrens
- Lichtenlijn
- Commerciële ligplaats



## **Annex B    Unesco PPs-78 formula for calculating salinity**



## Practical Salinity Scale (PPS 78) Salinity in the range of 2 to 42

Constants from the 19th Edition of Standard Methods

R cond.ratio	0.0117	$R = \frac{C}{42.914\text{mS/cm}}$							
C	0.5	Input conductivity in mS/cm of sample							
t deg. C	22.00	Input temperature of sample solution							
P dBar	20	Input pressure at which sample is measured in decibars							
Rp	1.0020845	$R_p = 1 + \frac{p(e_1 + e_2p + e_3p^2)}{1 + d_1t + d_2t^2 + (d_3 + d_4t)R}$							
rt	1.1641102	$r_t = c_0 + c_1t + c_2t^2 + c_3t^3 + c_4t^4$							
Rt	0.0099879	$R_t = \frac{R}{R_p \times r_t}$							
Delta S	-0.0010	$\text{Delta S} = \frac{(t-15)}{1+k(t-15)} (b_0 + b_1R_t^{1/2} + b_2R_t^{3/2} + b_3R_t^{5/2} + b_4R_t^2 + b_5R_t^{5/2})$							
S = Salinity	0.257	$S = a_0 + a_1R_t^{1/2} + a_2R_t^{3/2} + a_3R_t^{5/2} + a_4R_t^2 + a_5R_t^{5/2} + \text{delta S}$							
a0	0.0080	b0	0.0005	c0	0.6766097	d1	3.426E-02	e1	2.070E-04
a1	-0.1692	b1	-0.0056	c1	2.00564E-02	d2	4.464E-04	e2	-6.370E-08
a2	25.3851	b2	-0.0066	c2	1.104259E-04	d3	4.215E-01	e3	3.989E-12
a3	14.0941	b3	-0.0375	c3	-6.9698E-07	d4	-3.107E-03		
a4	-7.0261	b4	0.0636	c4	1.0031E-09				
a5	2.7081	b5	-0.0144						
		k	0.0162						

R = ratio of measured conductivity to the conductivity of the Standard Seawater Solution

Conductivity Ratio R is a function of salinity, temperature, and hydraulic pressure. So that we can factor R into three parts i.e.

$$R = R_t \times R_p \times r_t$$

$$R = C(S, t, p) / C(35, 15, 0)$$

C = 42.914 mS/cm at 15 deg C and 0 dbar pressure ie C(35,15,0) where 35 is the salinity

Ocean pressure is usually measured in decibars. 1 dbar = 10<sup>-1</sup> bar = 10<sup>5</sup> dyne/cm<sup>2</sup> = 10<sup>4</sup> Pascal.



## **Annex C    Technical specifications of measurement instruments**





## C.1 YSI 600R

### 600R

 [Product Recycling](#) [Share](#) |



#### Water Quality Sampling Sonde

The YSI 600R provides water quality sampling in a small package for surface water and ground water applications. With a diameter of less than two inches (4.2 cm), the 600R easily fits into wells.

This sonde measures dissolved oxygen using the Rapid Pulse® stirring-independent dissolved oxygen sensor.

Parameters include:

- Dissolved Oxygen (polarographic)
- Temperature
- Conductivity
- Salinity
- Specific Conductance
- pH
- Total Dissolved Solids (TDS)

The pH reference electrode is field-replaceable.

The 600R comes standard with RS-232 and SDI-12 communications and easily interfaces with data collection platforms for long-term deployment, or a YSI 650 Multiparameter Display System for sampling. When powered externally the 600R will log all parameters at programmable intervals and store up to 150,000 data sets.

Features:

- RS-232 and SDI-12 communications
- Easily connects to data collection platforms
- Compatible with the YSI 650 MDS
- Fits down 2-inch wells
- Compatible with EcoWatch software

## C.2. YSI 600 OMS

### 600OMS V2



 [Product Recycling](#) [Share](#) |

#### Single-Parameter, Low-Cost Optical Monitoring System

Measure optical dissolved oxygen, chlorophyll, blue-green algae, rhodamine, or turbidity in combination with temperature, conductivity and depth. Designed for use in fresh, sea or polluted waters, the 600OMS V2 utilizes the field-proven YSI sensors and incorporates innovations in sensor configuration such as a conductivity and temperature module that fits into the sonde body.

Designed for use in fresh, sea or polluted waters, the 600OMS V2 utilizes the field-proven YSI sensors and incorporates innovations in sensor configuration such as a conductivity and temperature module that fits into the sonde body.

Parameters available for the 600OMS V2 include:

- Temperature
- Conductivity
- Salinity
- Specific Conductance
- Depth
- TDS
- Shallow Vented Level
- Optical Dissolved Oxygen, Blue-green Algae, Turbidity, Chlorophyll or Rhodamine

The 600OMS V2 is available with or without internal power. Its small size is perfect for applications such as turbidity or oxygen monitoring.

Features:

- Fits down 2-inch wells
- Easily connects to data collection platforms
- Compatible with the YSI 650 MDS
- Wiped optics prevent biofouling

**Extend deployment intervals by 3 times or more with [Anti-Fouling Kits](#)**

You can rely on the accuracy and reliability of YSI's sensor technology-the performance of select sensors on the 600OMS V2 have been ETV Verified.\*

## **Annex D    Horizontal salinity distribution in the port of Zeebrugge in the middle of the water column**



# Horizontal salinity distribution in the port of Zeebrugge

Project:

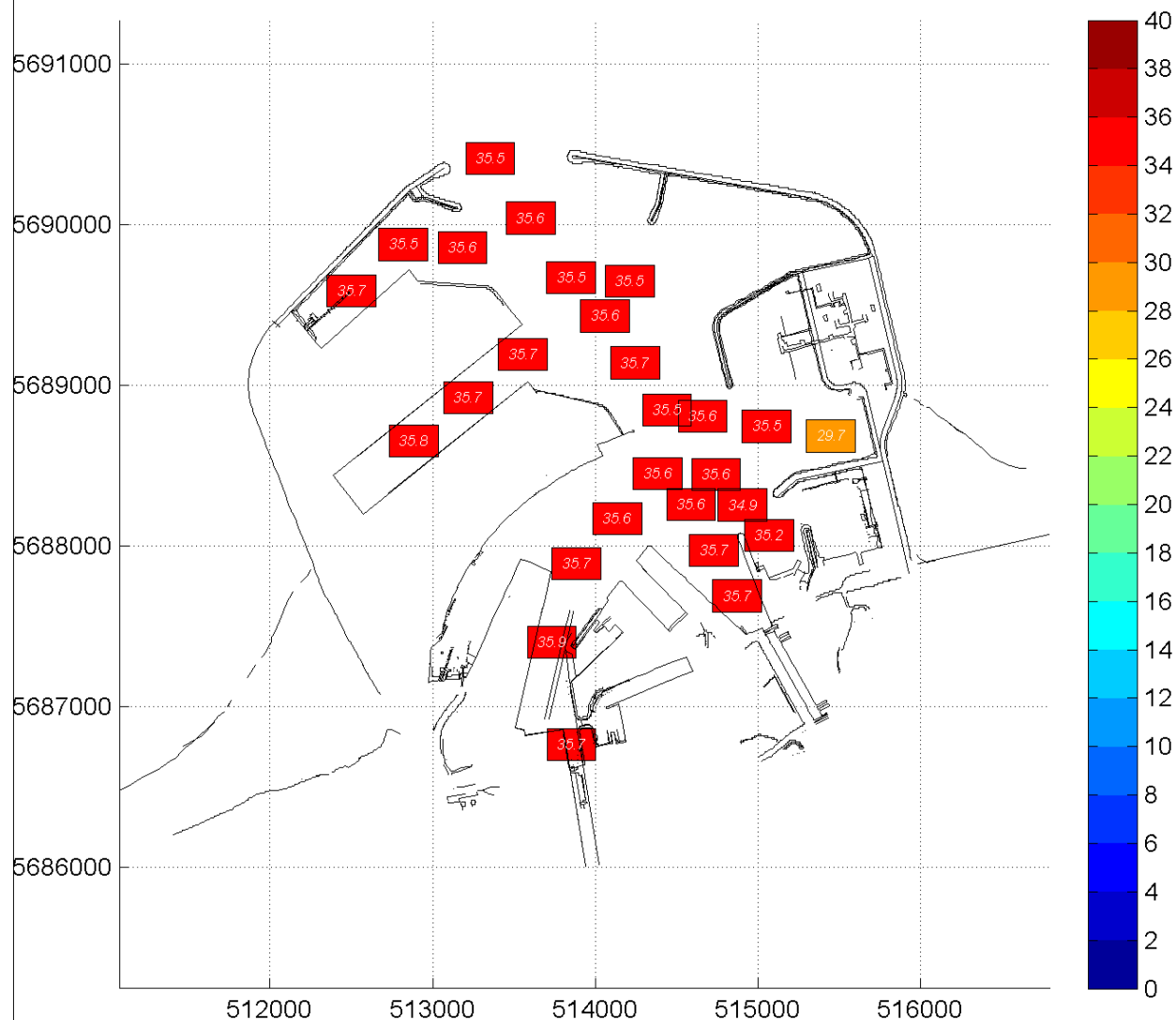
11292 - Zoutmetingen Zeebrugge

Location:

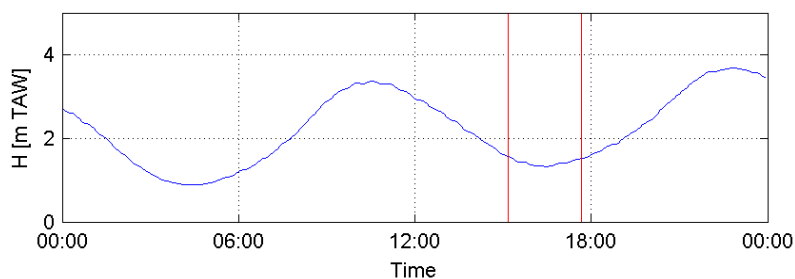
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 15-Jan-2007



HW/LW

10:00: h = 3.33m

22:50: h = 3.69m

16:25: h = 1.32m

Date/time:

15-Jan-2007

15:09 - 17:40

Time after HW

-6:24

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

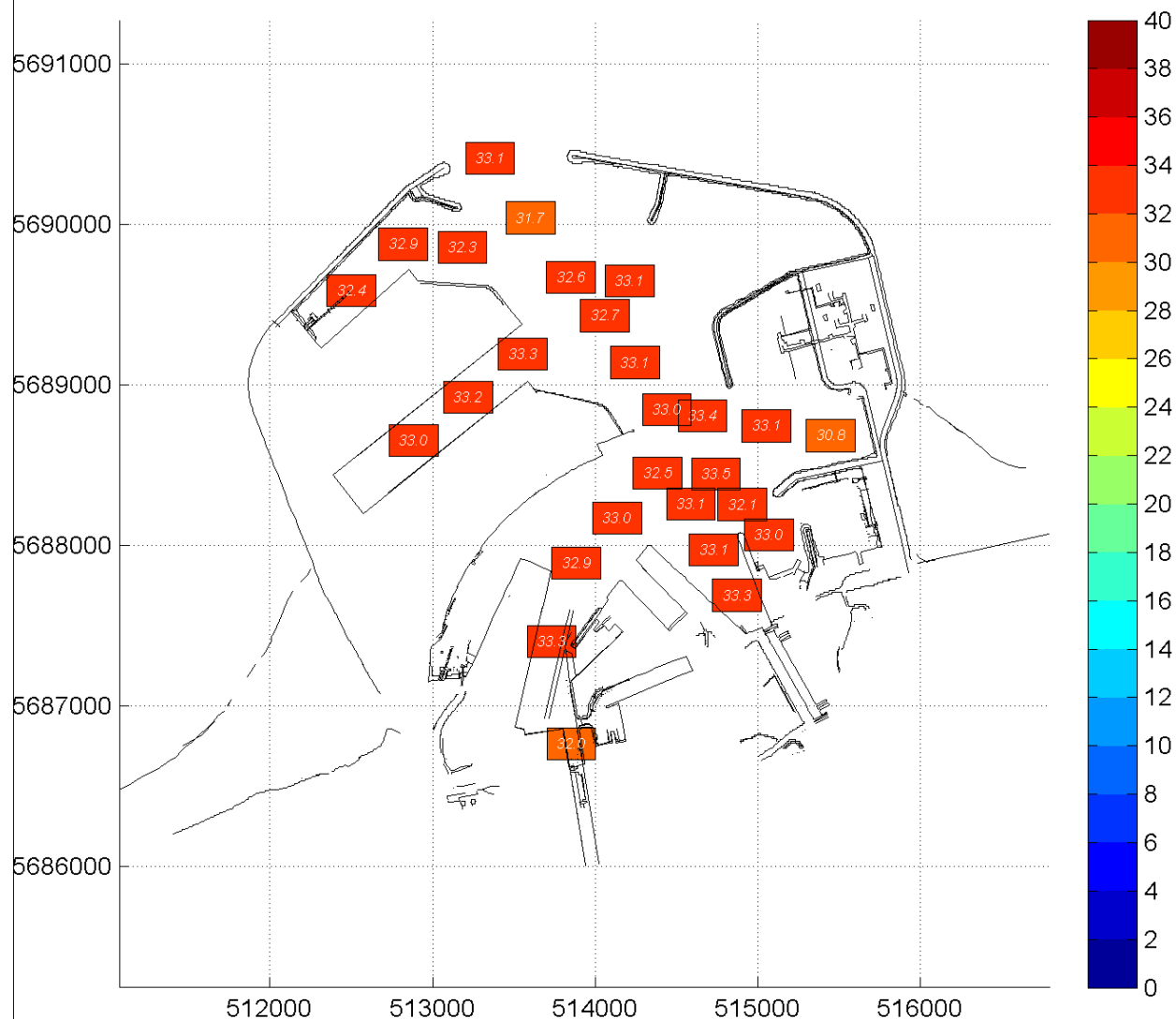
11292 - Zoutmetingen Zeebrugge

Location:

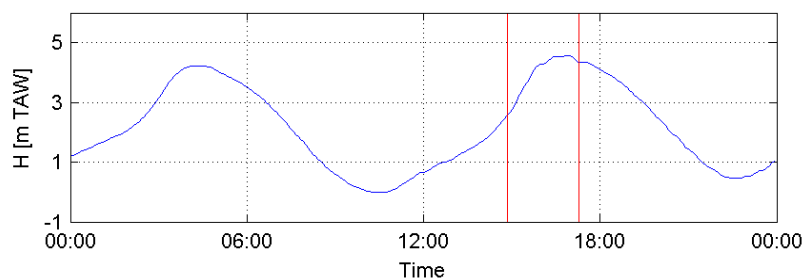
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 23-Jan-2007



HW/LW

04:10: h = 4.22m

16:30: h = 4.53m

10:20: h = -0.01m

Date/time:

23-Jan-2007

14:51 - 17:16

Time after HW

-0:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

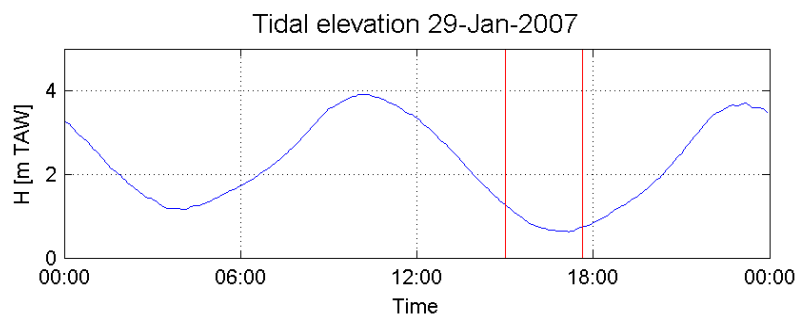
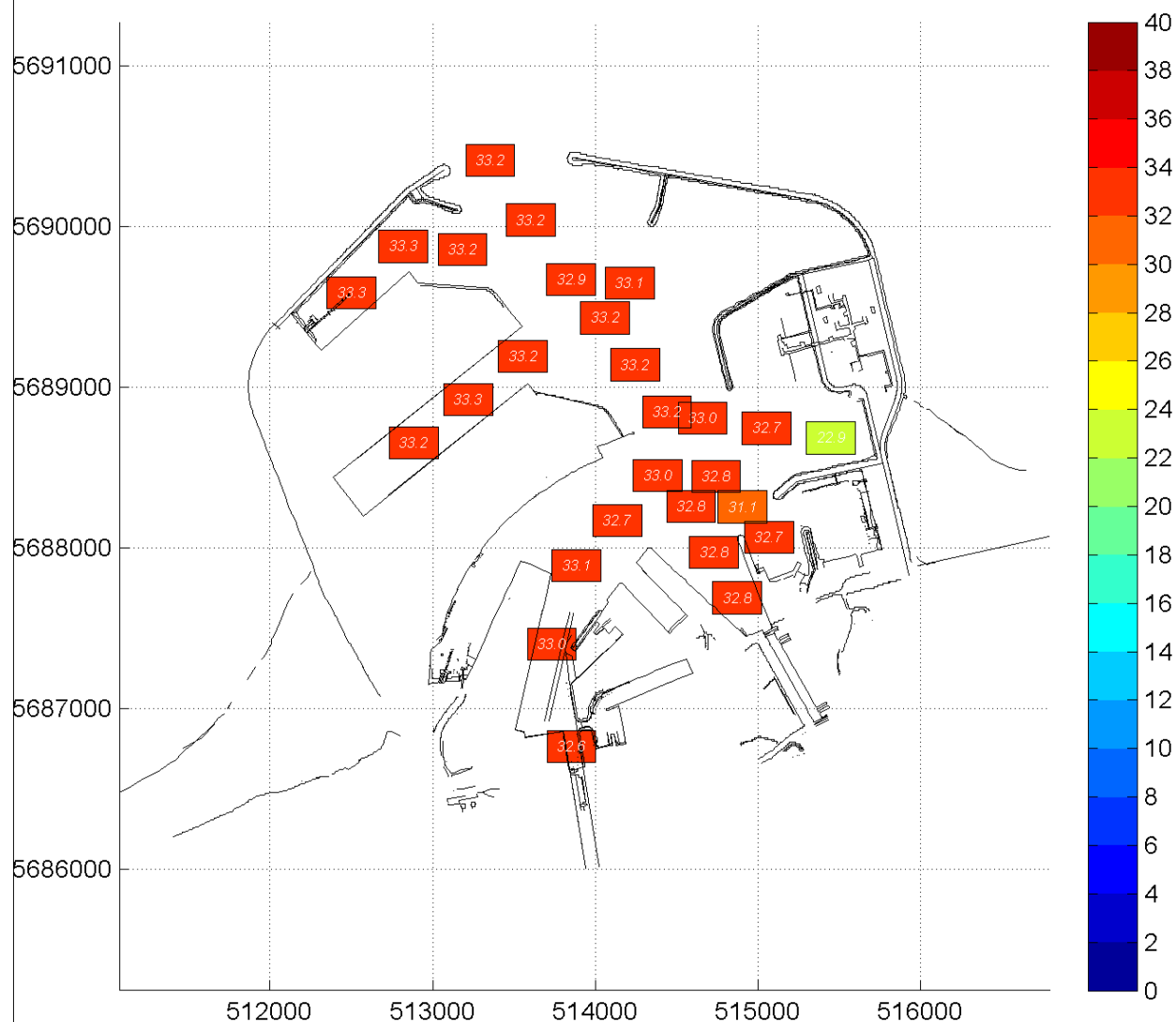
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

10:05: h = 3.91m

23:10: h = 3.7m

16:45: h = 0.65m

Date/time:

29-Jan-2007

15:00 - 17:37

Time after HW

6:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

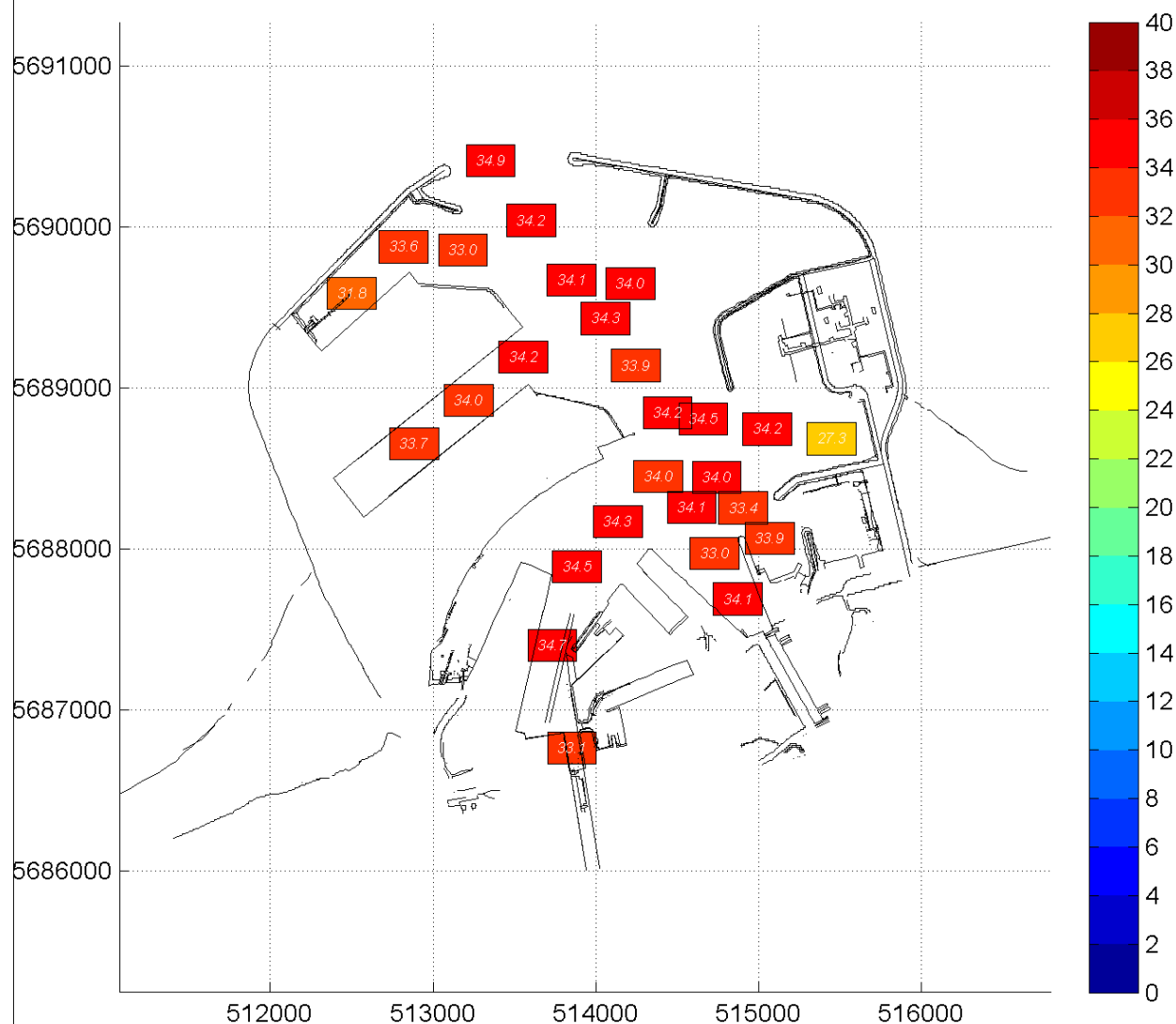
11292 - Zoutmetingen Zeebrugge

Location:

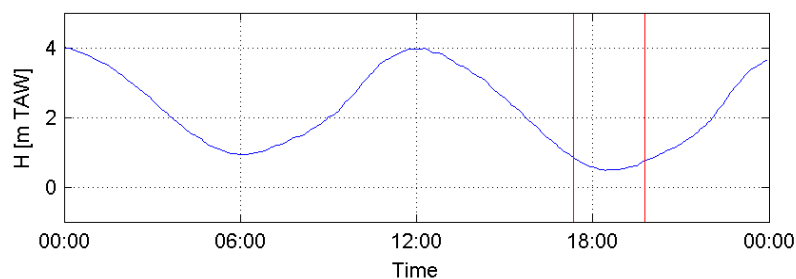
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 15-Feb-2007



HW/LW

11:45: h = 3.97m

00:25: h = NaNm

18:25: h = 0.48m

Date/time:

15-Feb-2007

17:19 - 19:45

Time after HW

-5:52

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

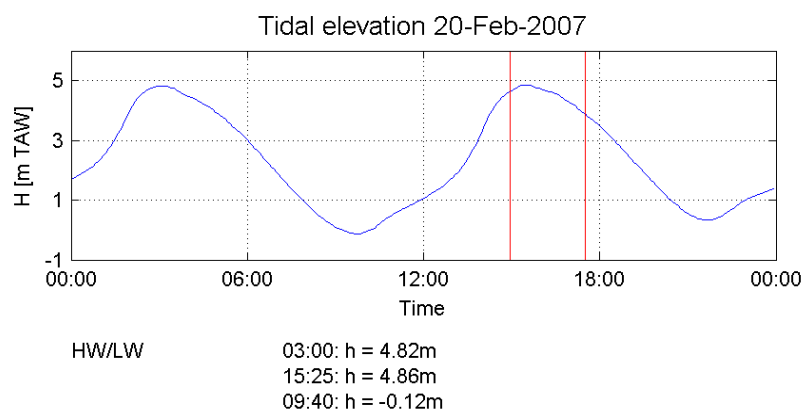
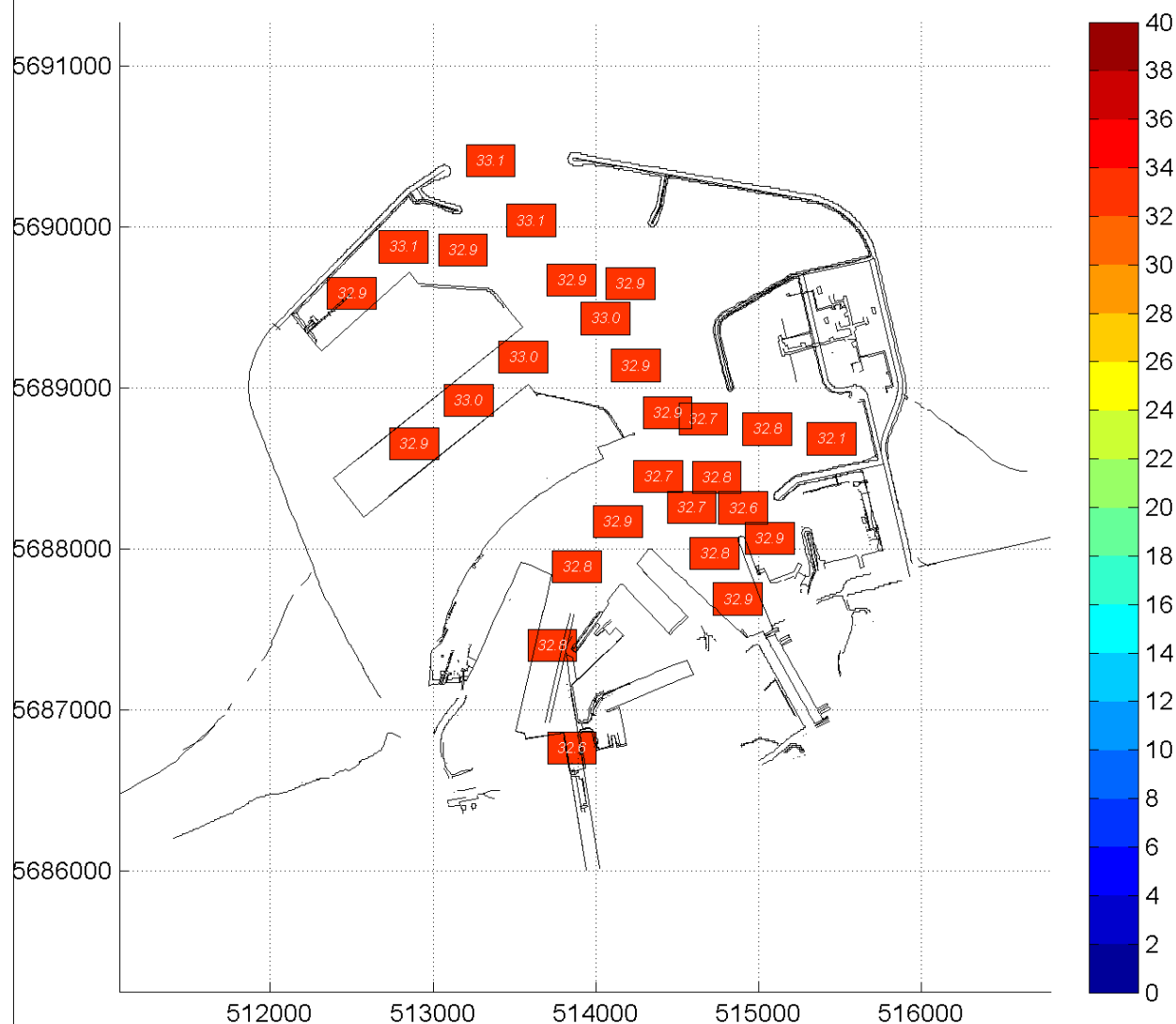
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

20-Feb-2007

14:56 - 17:29

Time after HW

0:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

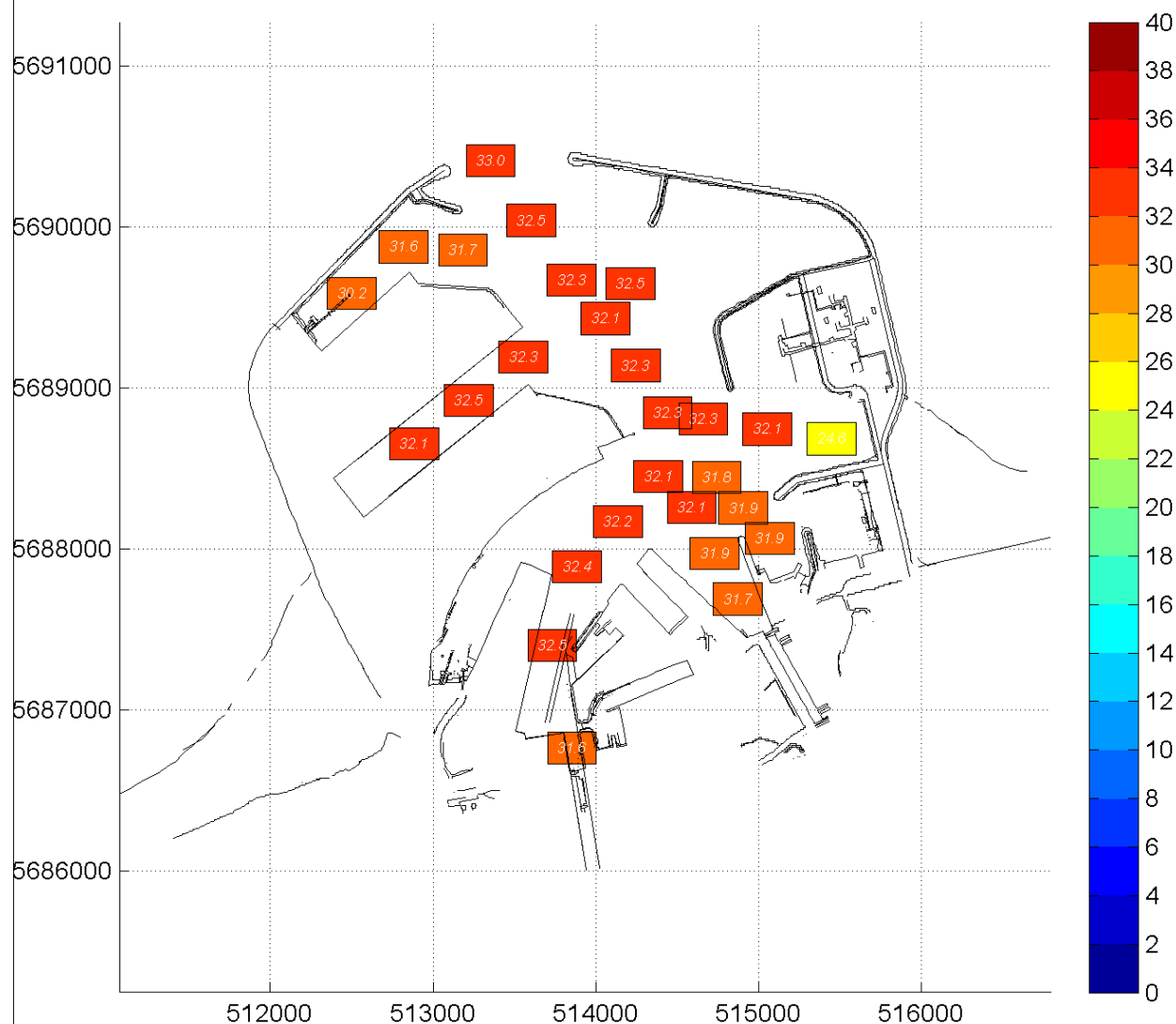
11292 - Zoutmetingen Zeebrugge

Location:

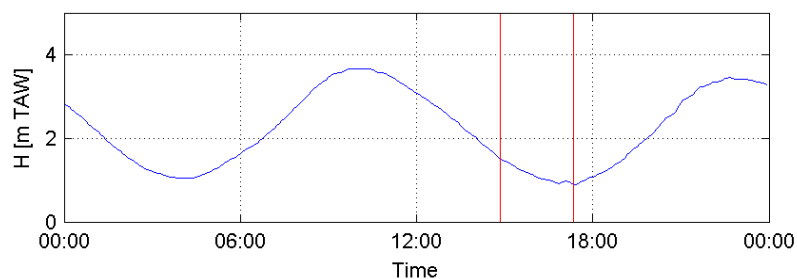
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 27-Feb-2007



HW/LW

09:50: h = 3.67m

22:40: h = 3.45m

16:50: h = 0.92m

Date/time:

27-Feb-2007

14:50 - 17:20

Time after HW

6:15

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

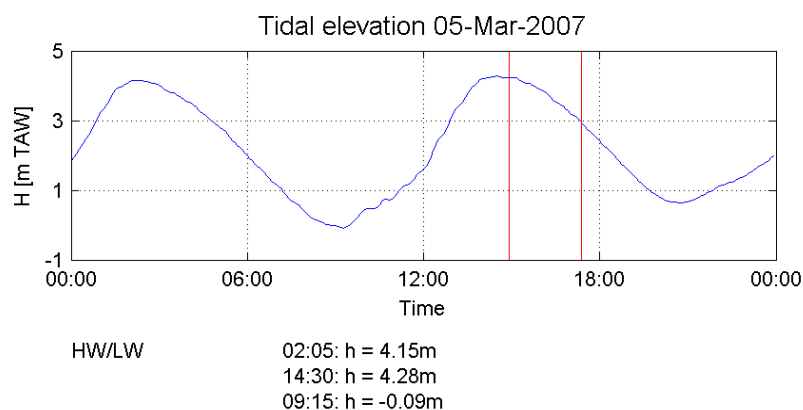
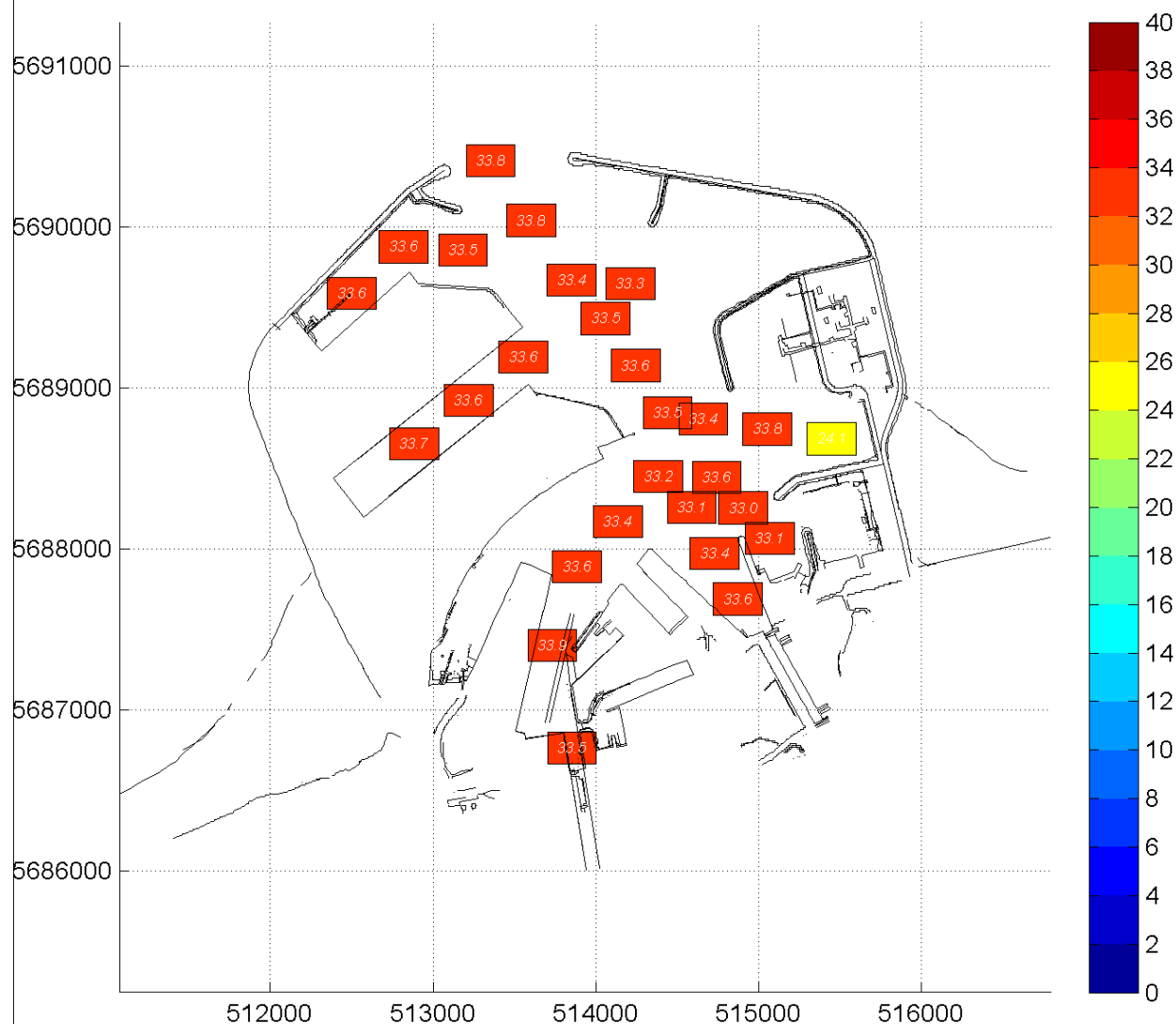
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

05-Mar-2007

14:54 - 17:22

Time after HW

1:38

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

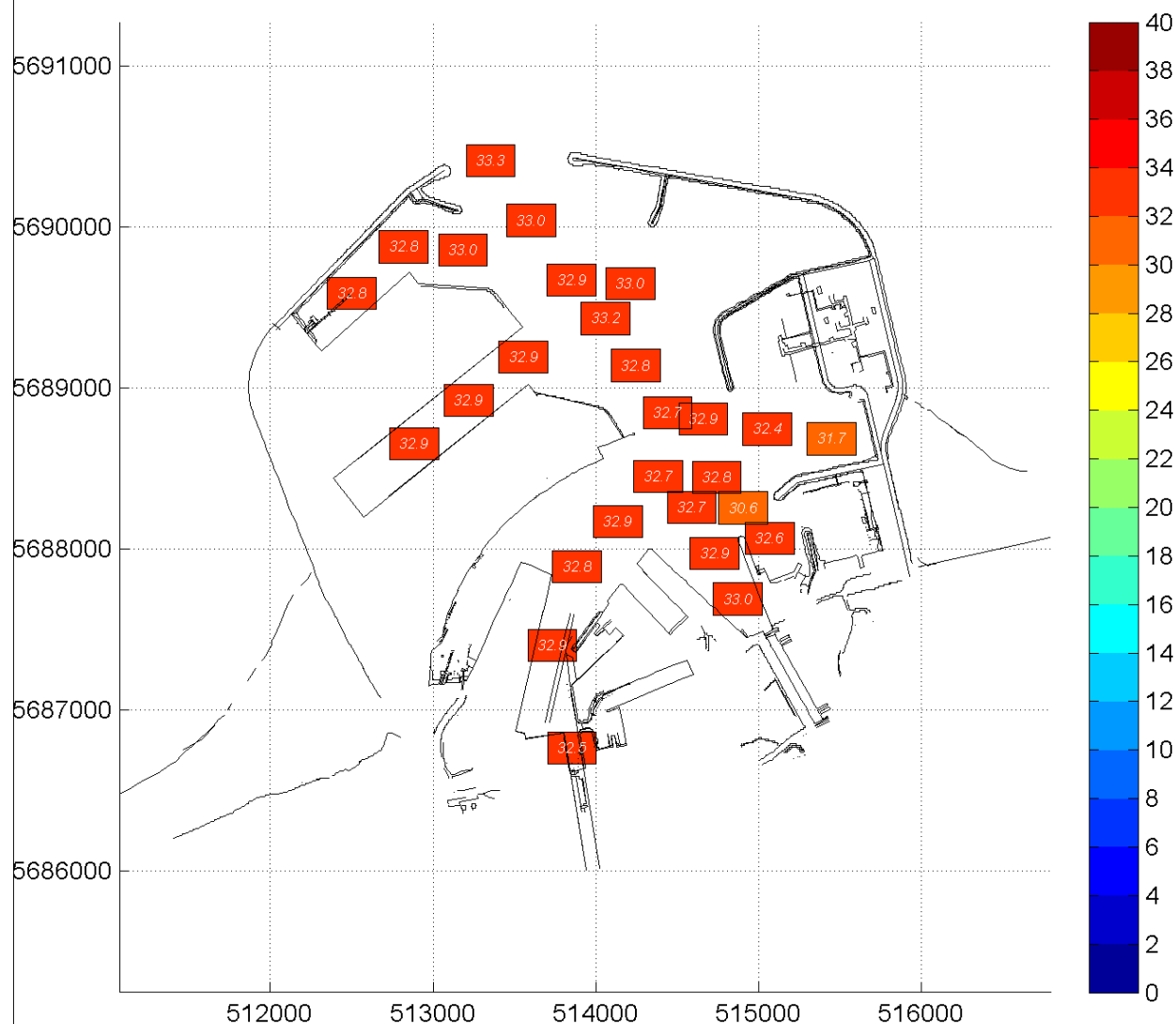
11292 - Zoutmetingen Zeebrugge

Location:

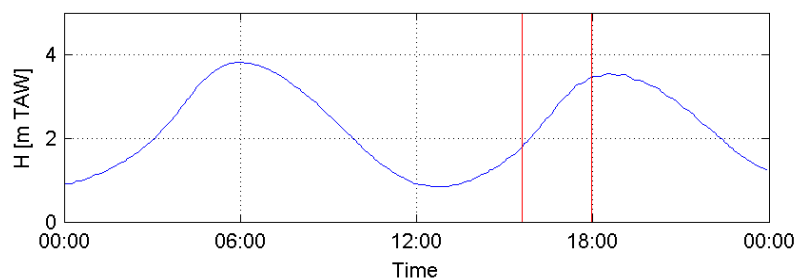
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 12-Mar-2007



HW/LW

05:55: h = 3.82m

18:30: h = 3.54m

12:35: h = 0.84m

Date/time:

12-Mar-2007

15:35 - 17:57

Time after HW

-1:43

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

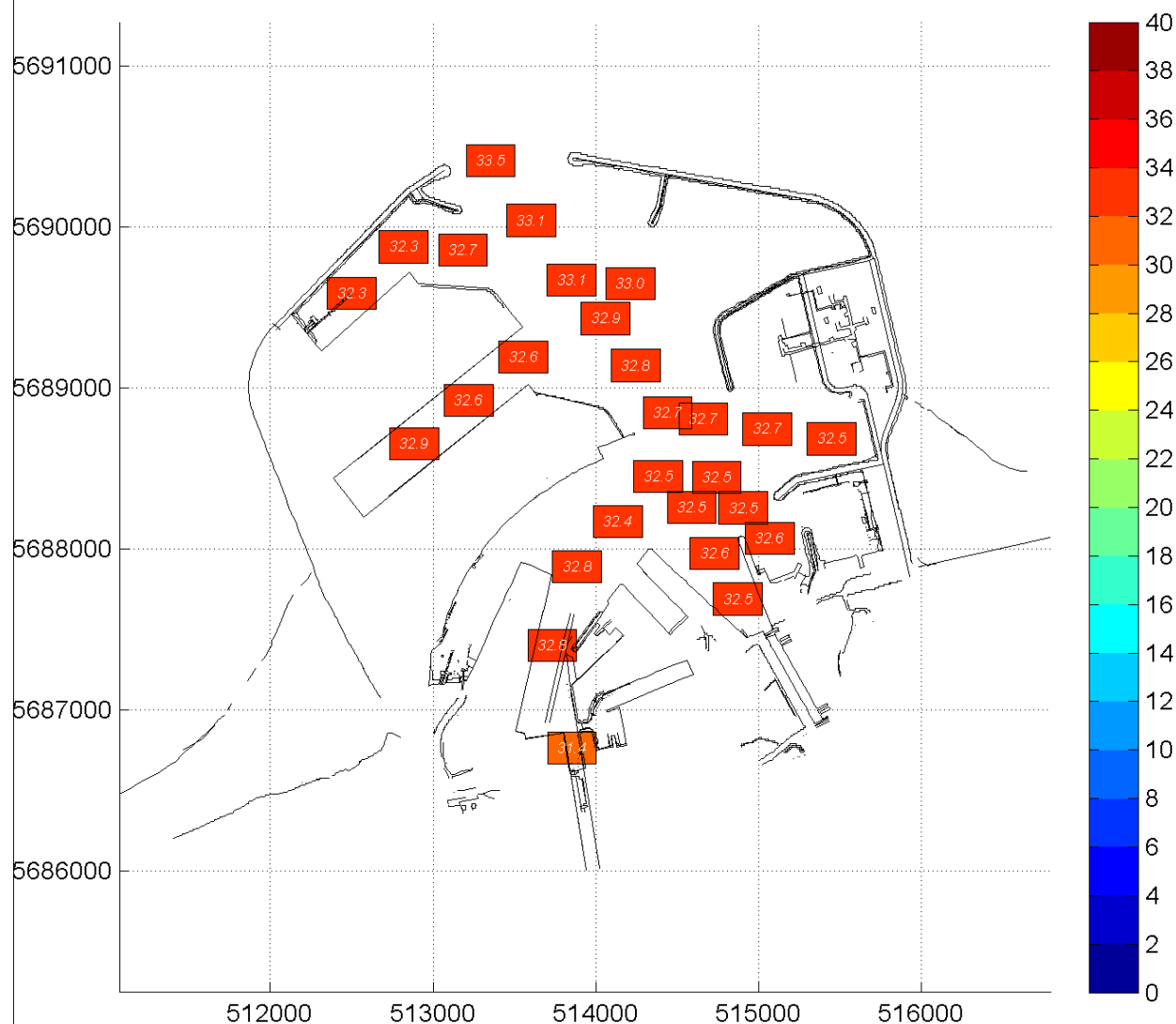
11292 - Zoutmetingen Zeebrugge

Location:

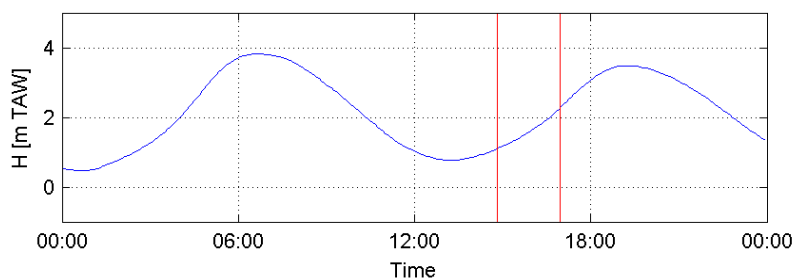
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 26-Mar-2007



HW/LW

06:35: h = 3.83m

19:00: h = 3.47m

13:15: h = 0.77m

Date/time:

26-Mar-2007

14:48 - 16:57

Time after HW

-3:06

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

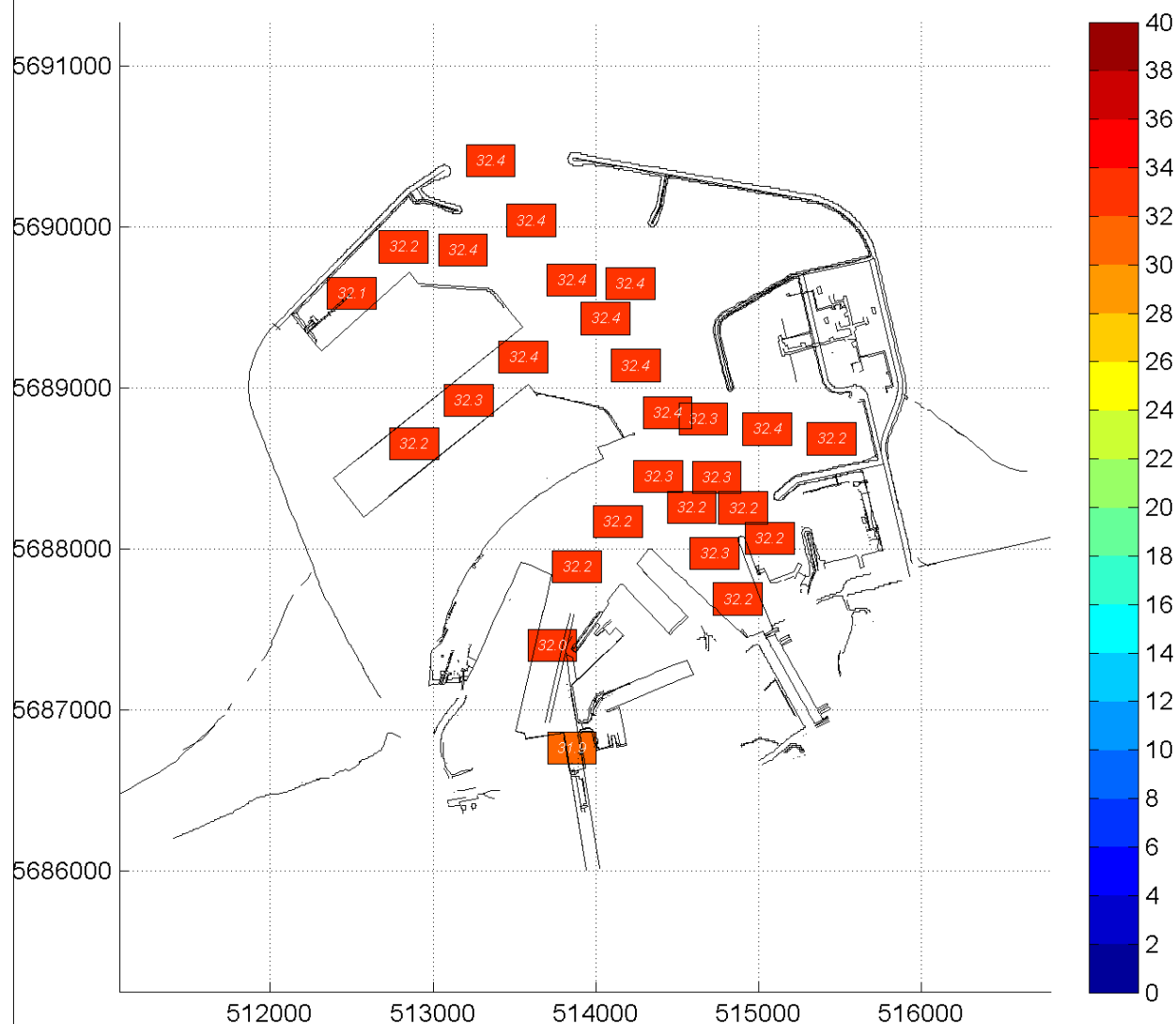
11292 - Zoutmetingen Zeebrugge

Location:

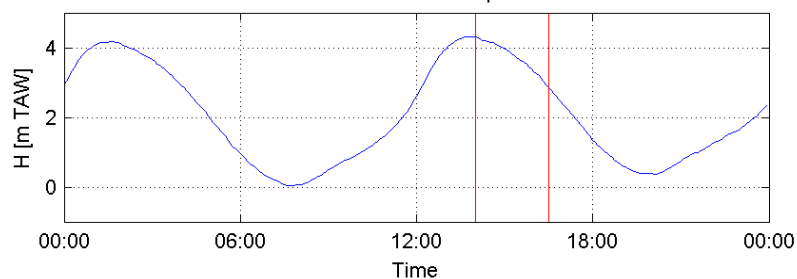
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 02-Apr-2007



HW/LW

01:35: h = 4.17m

13:50: h = 4.31m

07:40: h = 0.04m

Date/time:

02-Apr-2007

14:00 - 16:29

Time after HW

1:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

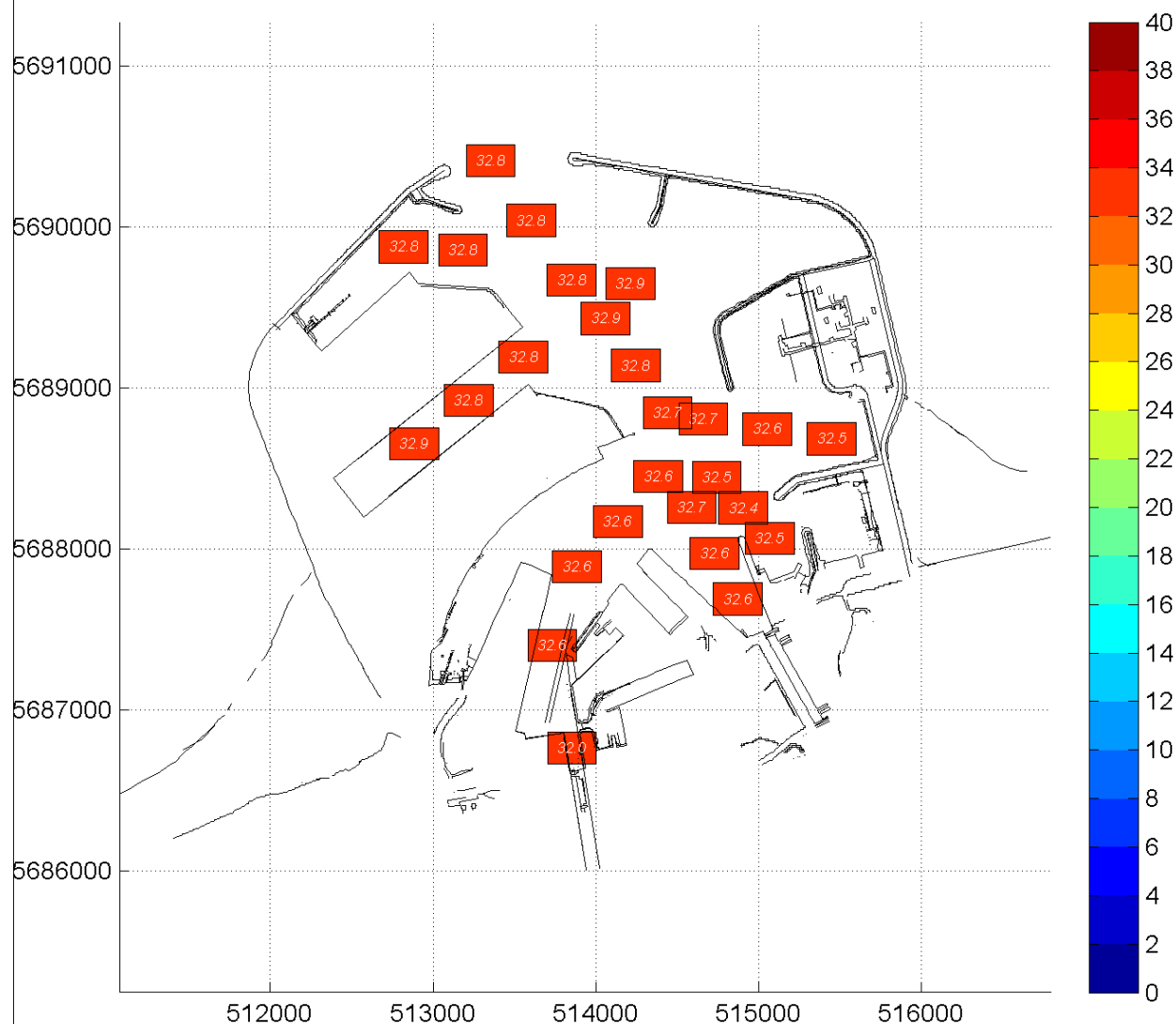
11292 - Zoutmetingen Zeebrugge

Location:

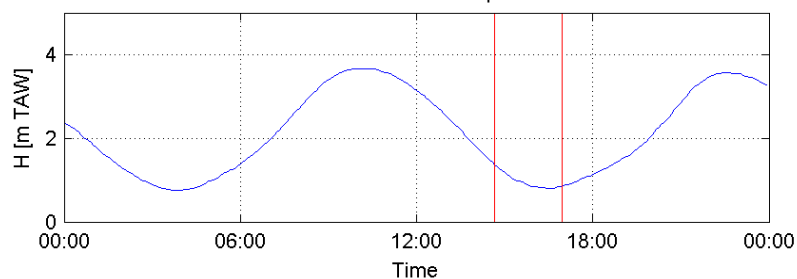
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 13-Apr-2007



HW/LW

09:55: h = 3.67m

22:30: h = 3.58m

16:25: h = 0.81m

Date/time:

13-Apr-2007

14:38 - 16:58

Time after HW

5:53

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

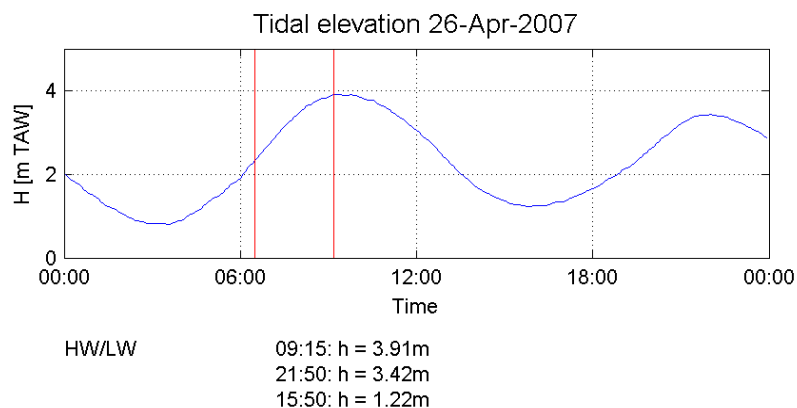
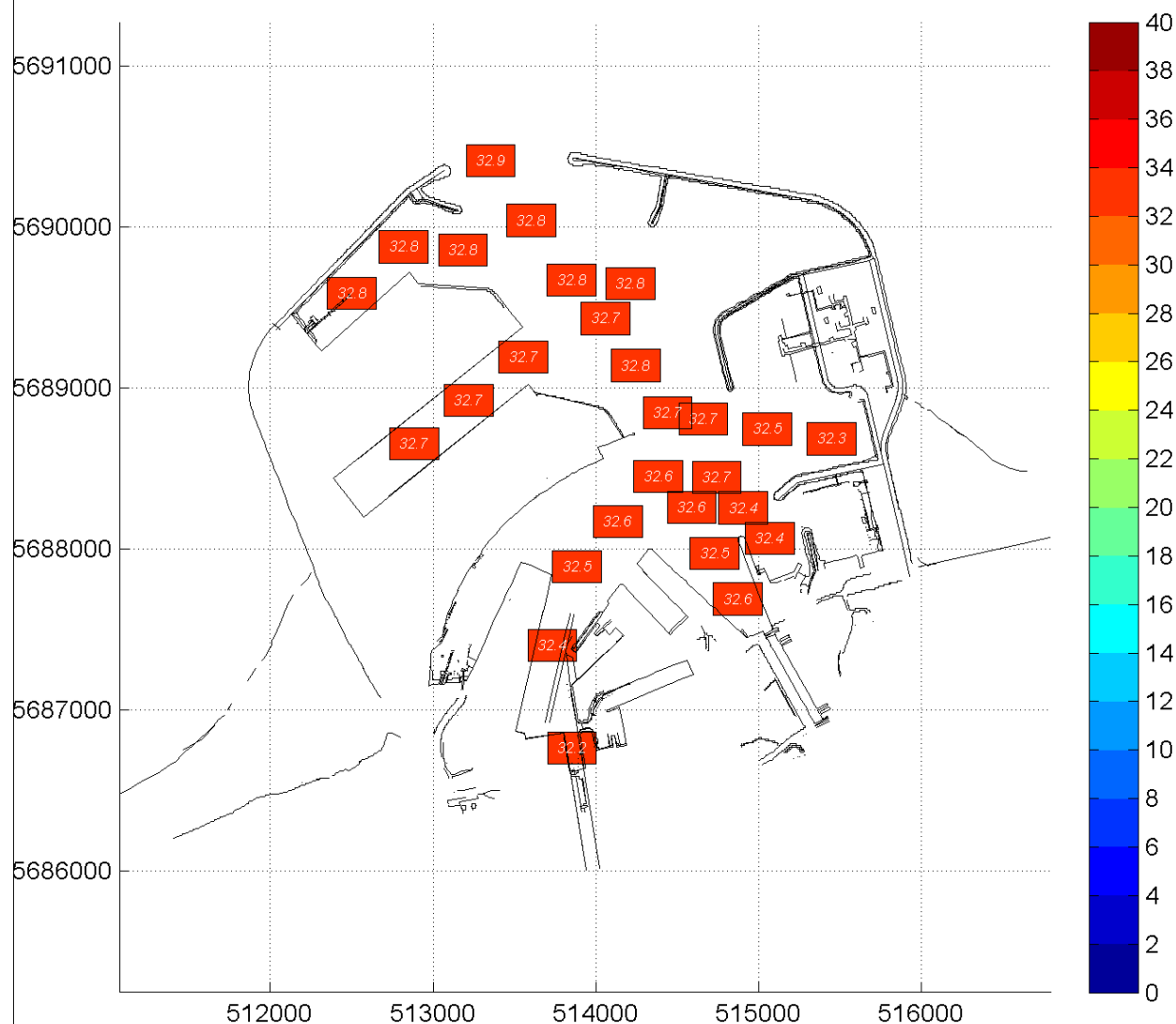
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

26-Apr-2007

06:28 - 09:10

Time after HW

-1:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

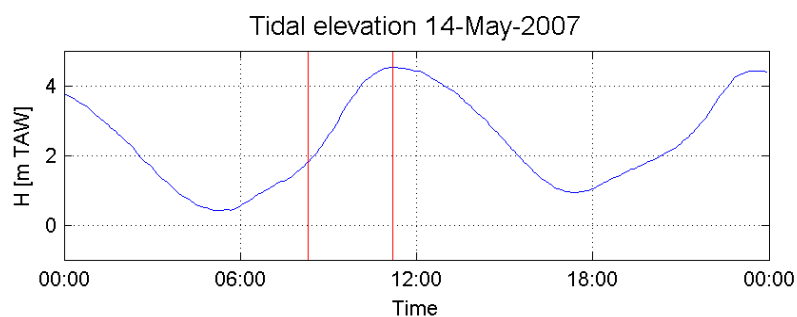
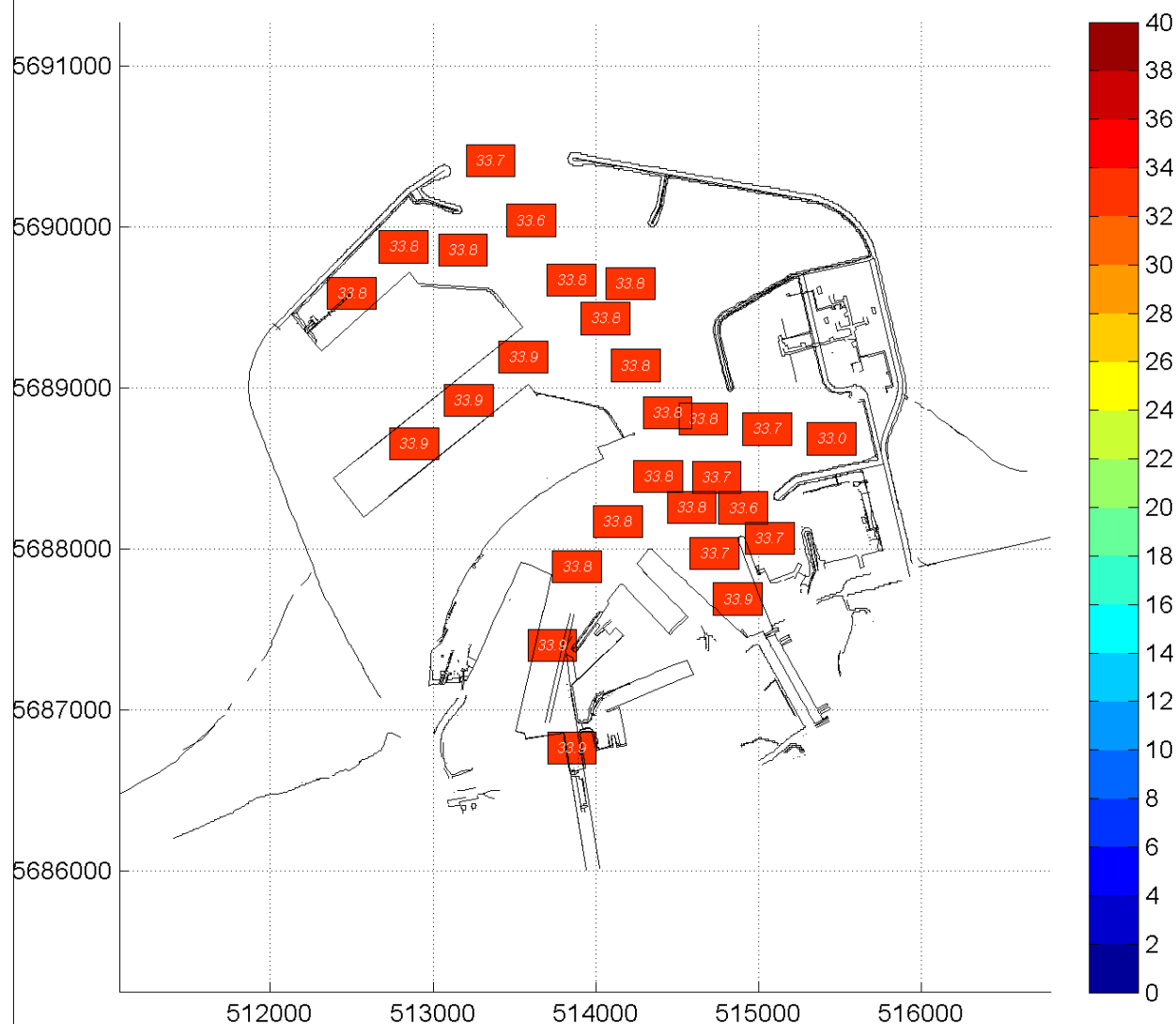
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

11:05: h = 4.53m

23:25: h = 4.43m

17:25: h = 0.92m

Date/time:

14-May-2007

08:17 - 11:11

Time after HW

-1:20

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

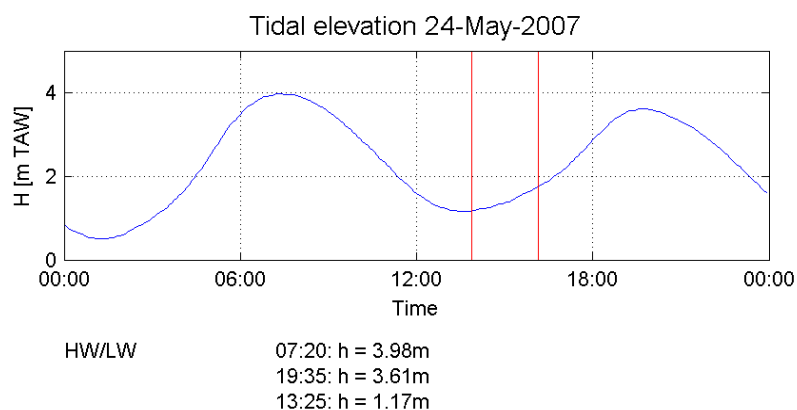
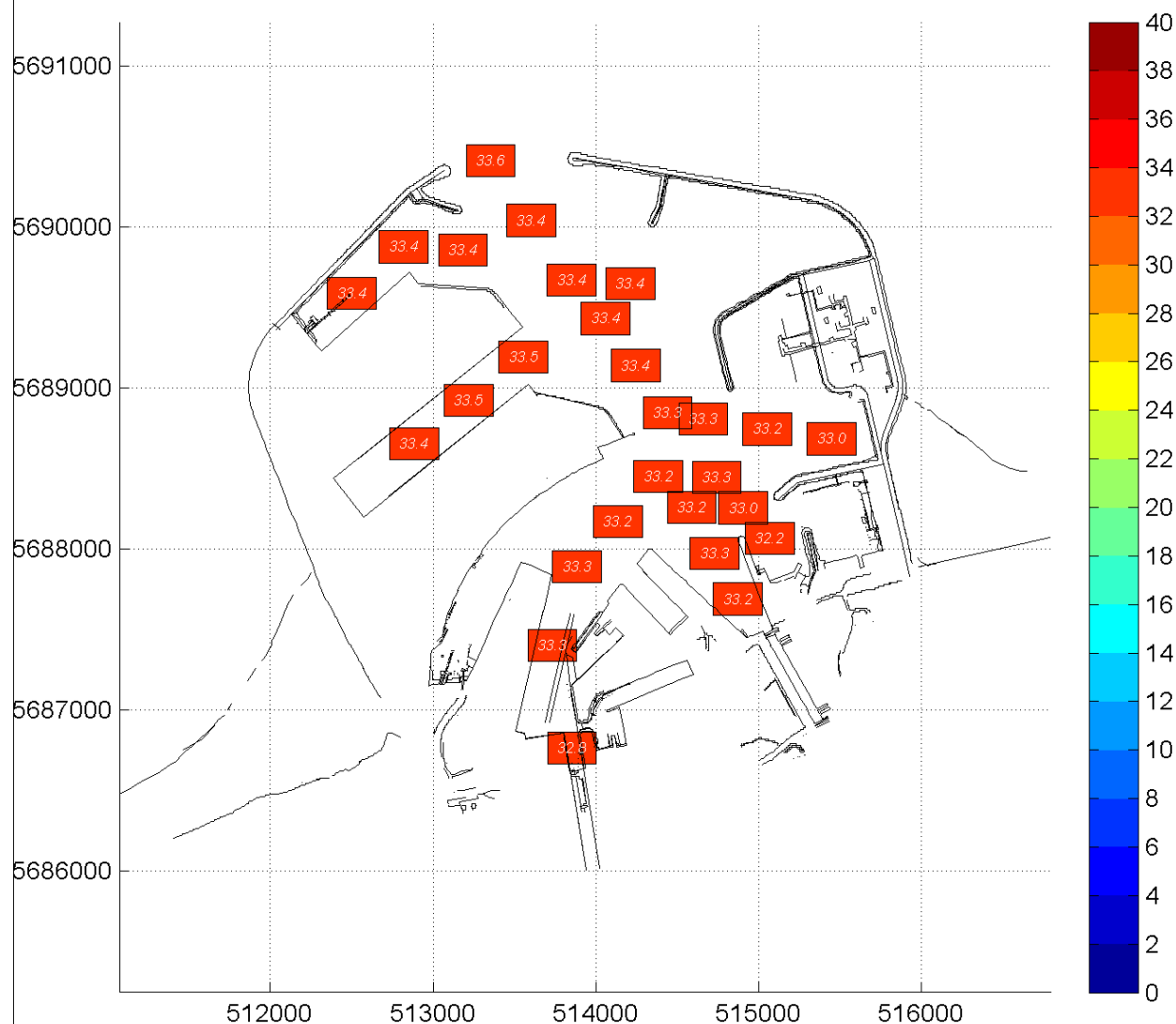
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

24-May-2007

13:52 - 16:09

Time after HW

-4:34

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

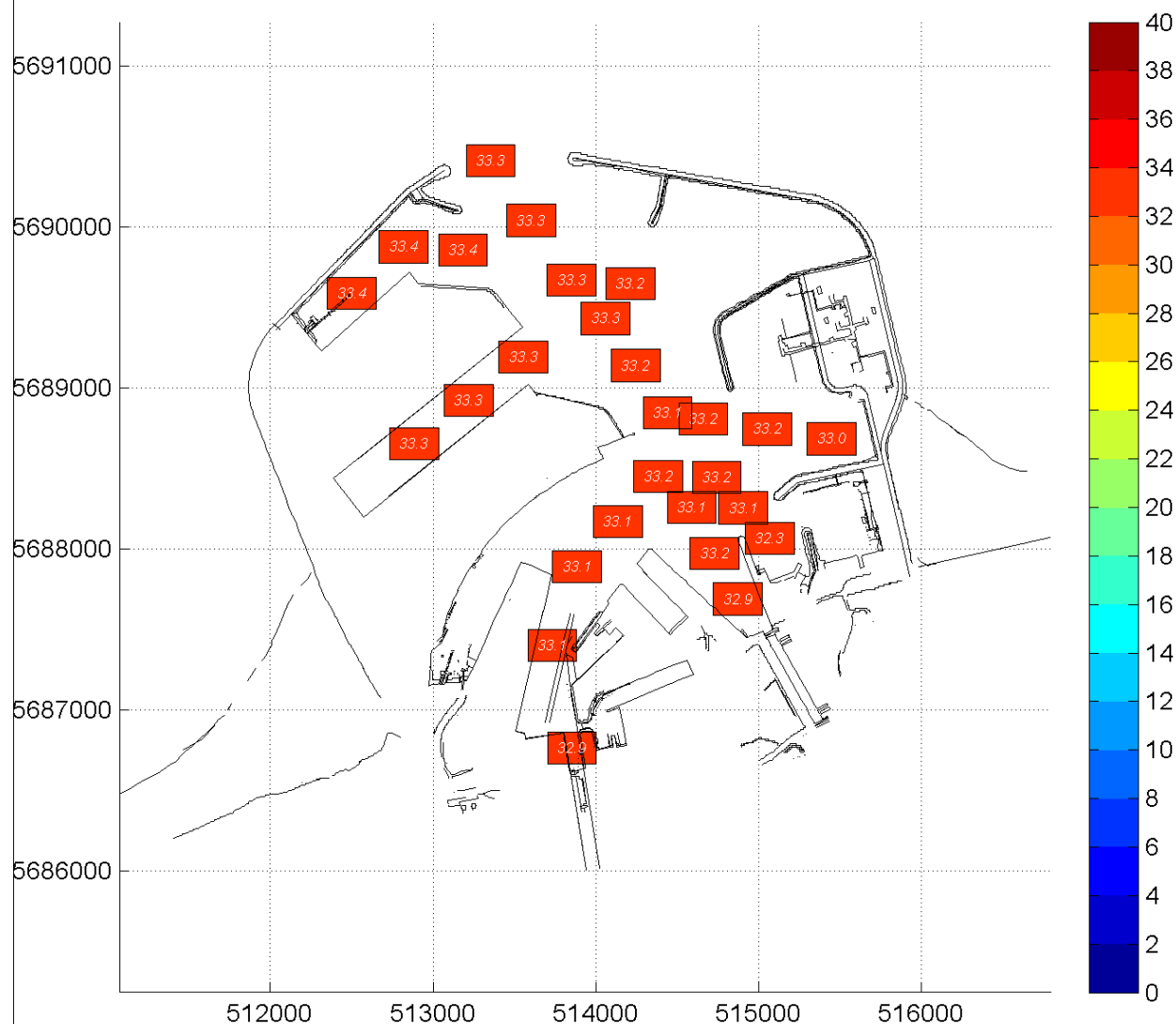
11292 - Zoutmetingen Zeebrugge

Location:

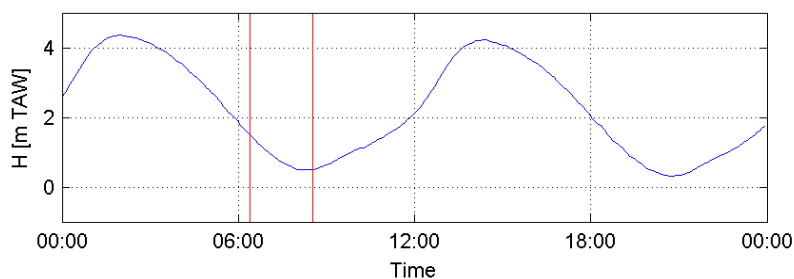
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 02-Jun-2007



HW/LW

01:55: h = 4.36m

14:20: h = 4.22m

08:20: h = 0.49m

Date/time:

02-Jun-2007

06:23 - 08:32

Time after HW

5:32

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

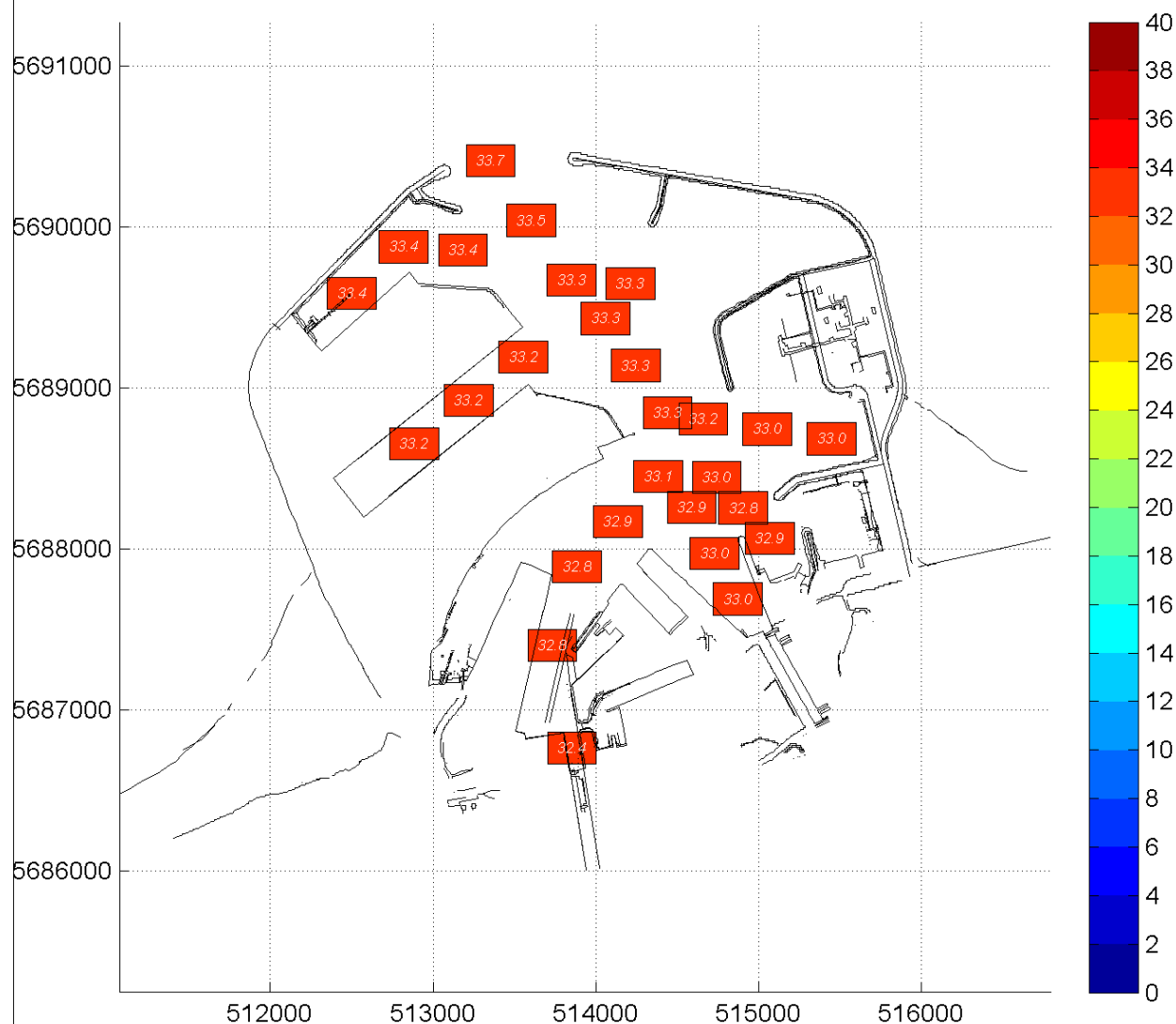
11292 - Zoutmetingen Zeebrugge

Location:

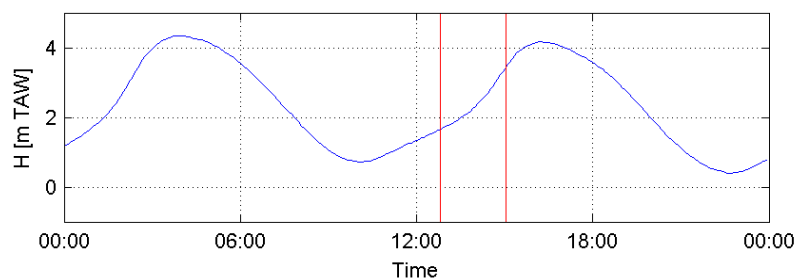
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 05-Jun-2007



HW/LW

03:45: h = 4.34m

16:10: h = 4.17m

10:00: h = 0.72m

Date/time:

05-Jun-2007

12:48 - 15:01

Time after HW

-2:15

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

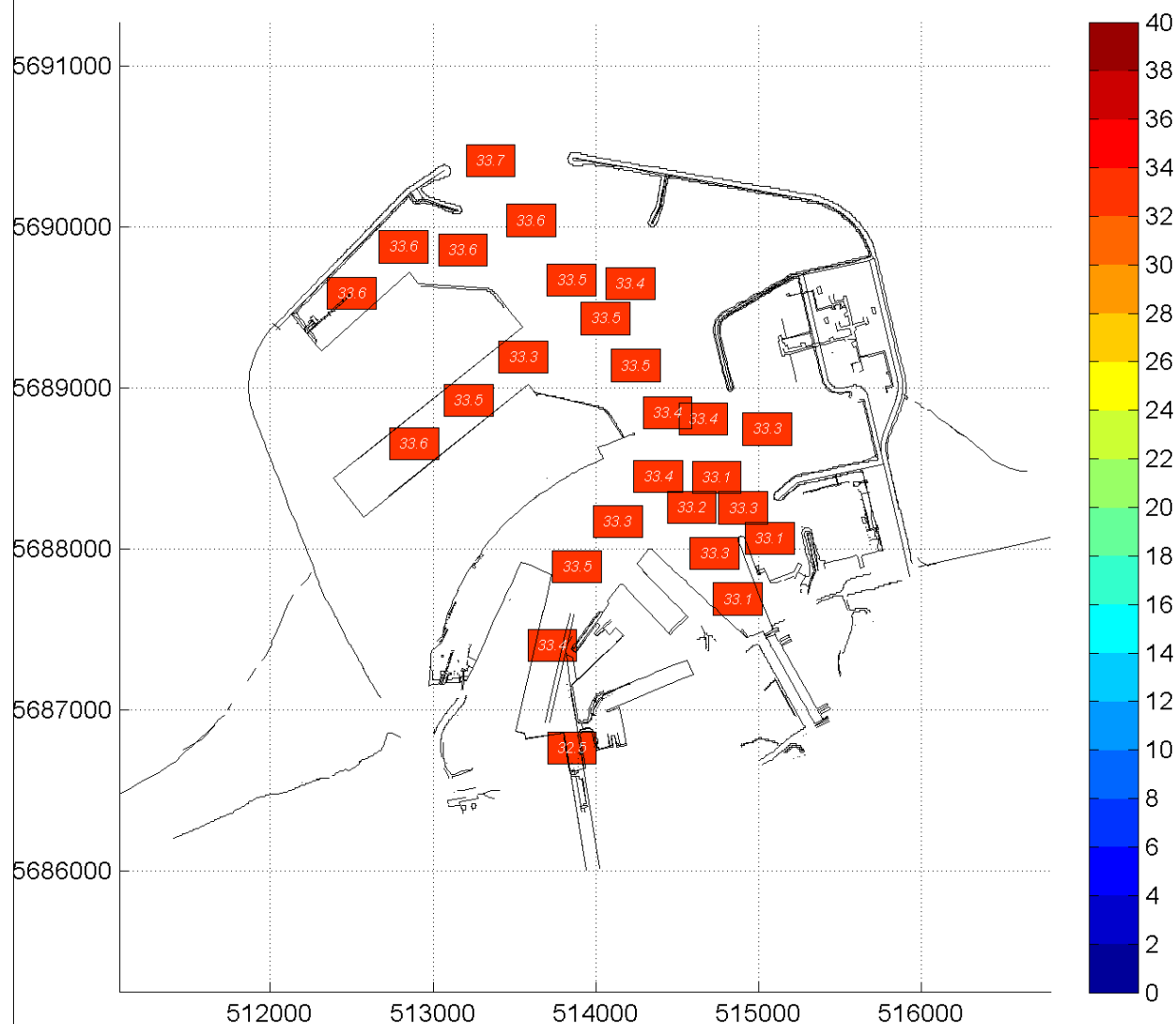
11292 - Zoutmetingen Zeebrugge

Location:

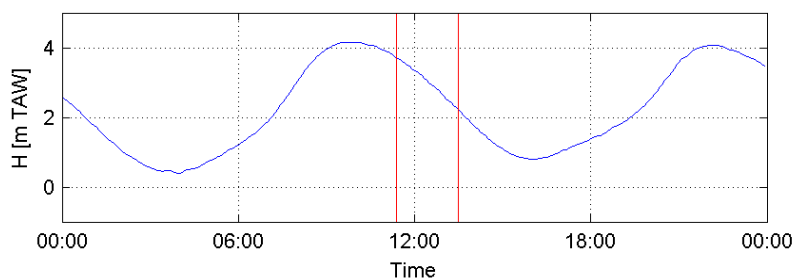
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 11-Jun-2007



HW/LW

09:35: h = 4.15m

22:00: h = 4.07m

15:55: h = 0.81m

Date/time:

11-Jun-2007

11:23 - 13:28

Time after HW

2:50

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

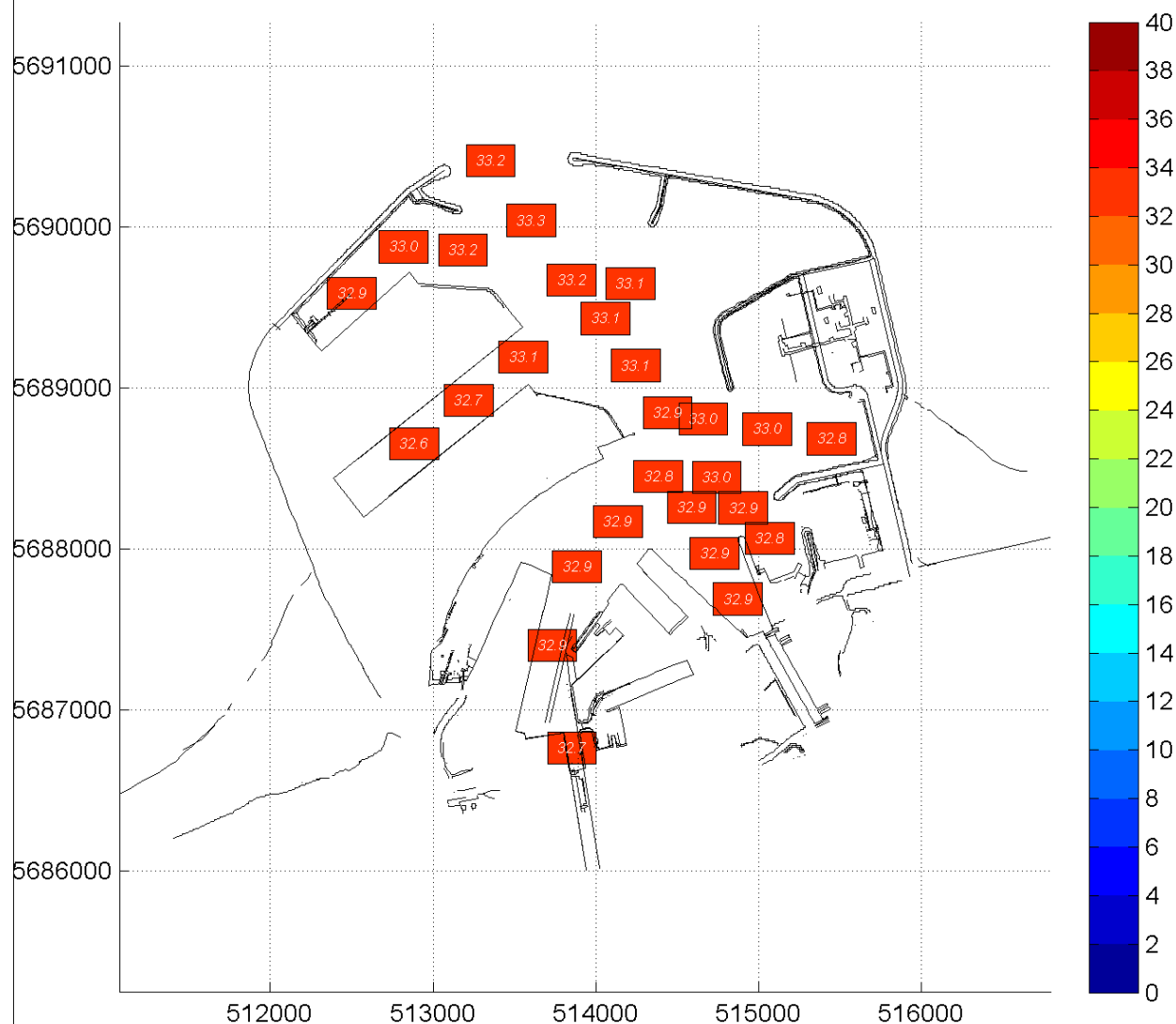
11292 - Zoutmetingen Zeebrugge

Location:

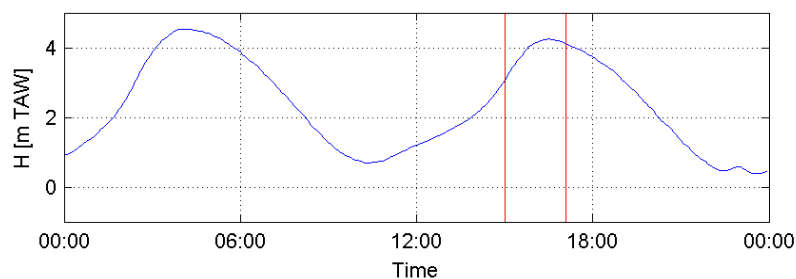
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 19-Jun-2007



HW/LW

04:00: h = 4.53m

16:30: h = 4.25m

10:20: h = 0.69m

Date/time:

19-Jun-2007

15:00 - 17:04

Time after HW

-0:27

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

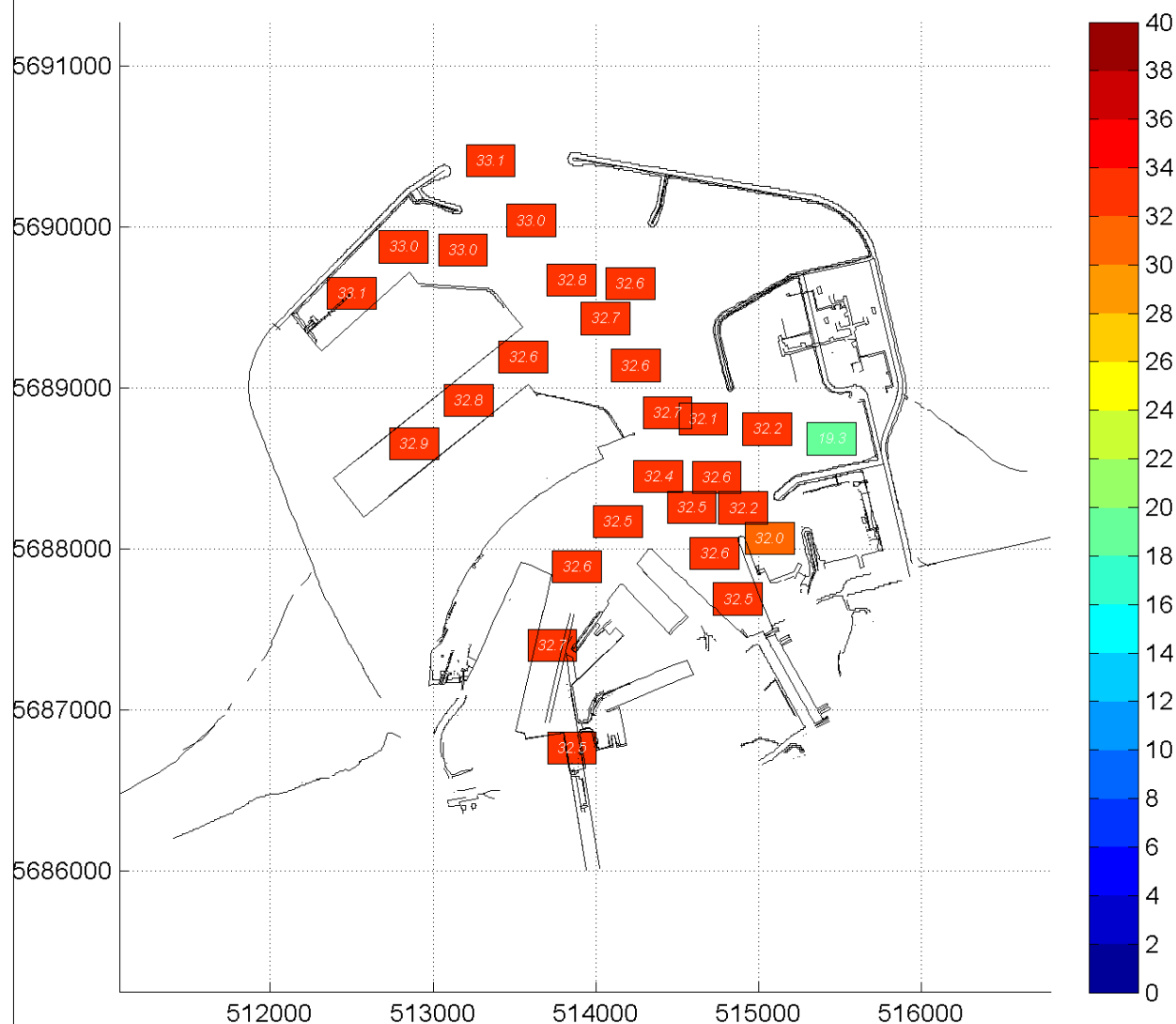
11292 - Zoutmetingen Zeebrugge

Location:

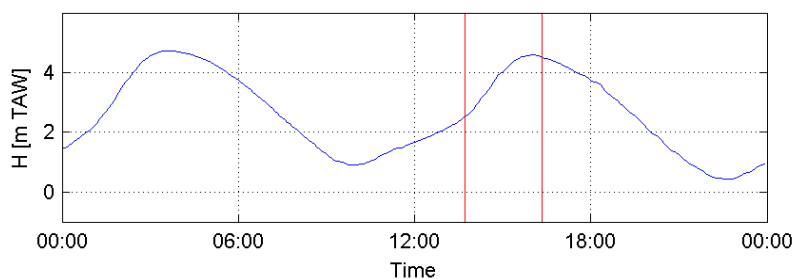
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 04-Jul-2007



Date/time:

04-Jul-2007

13:43 - 16:20

Time after HW

-0:58

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

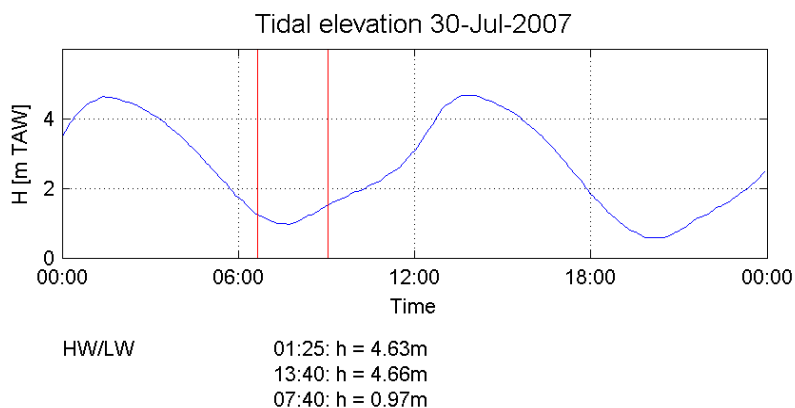
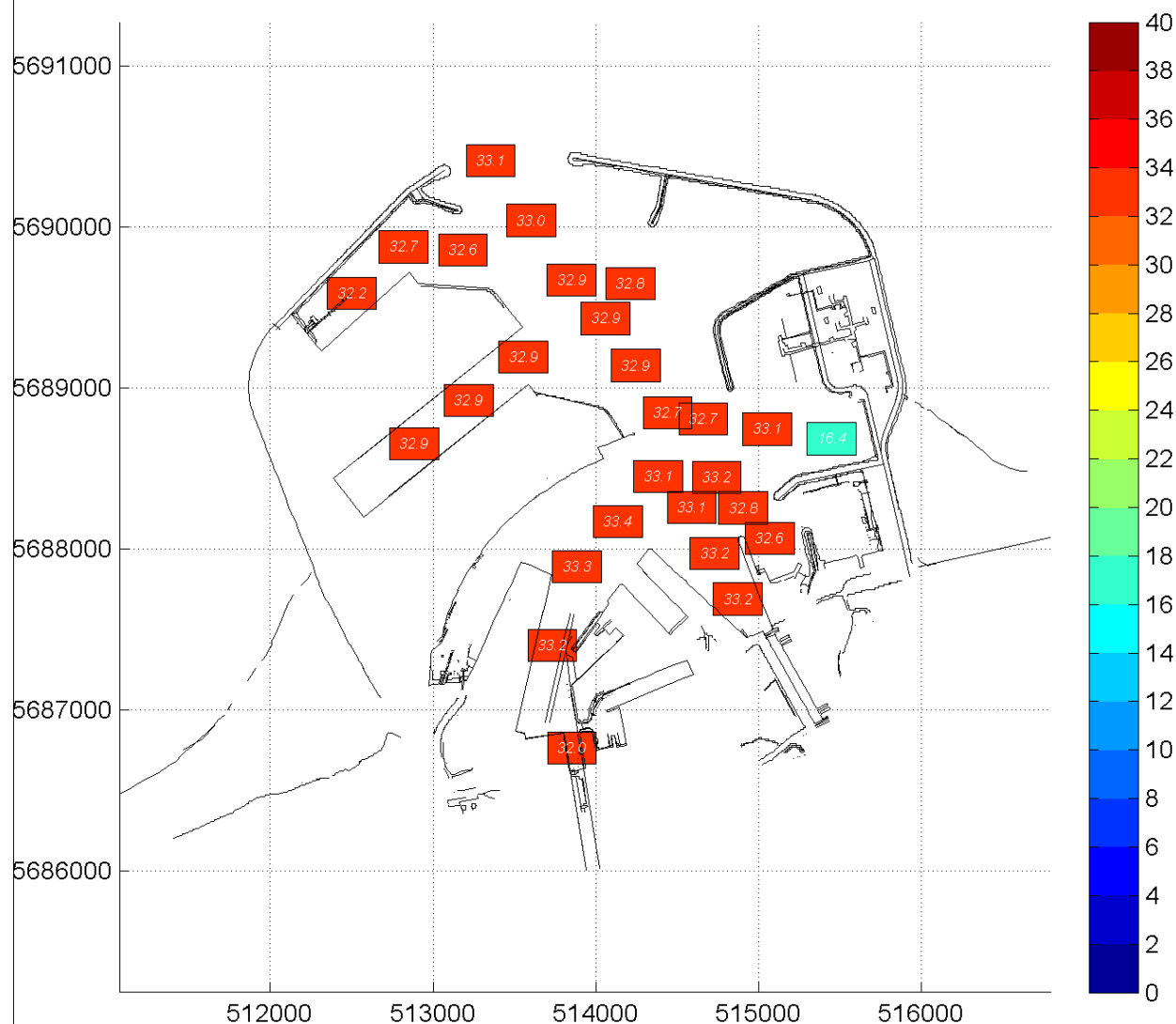
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

30-Jul-2007

06:39 - 09:03

Time after HW

-5:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

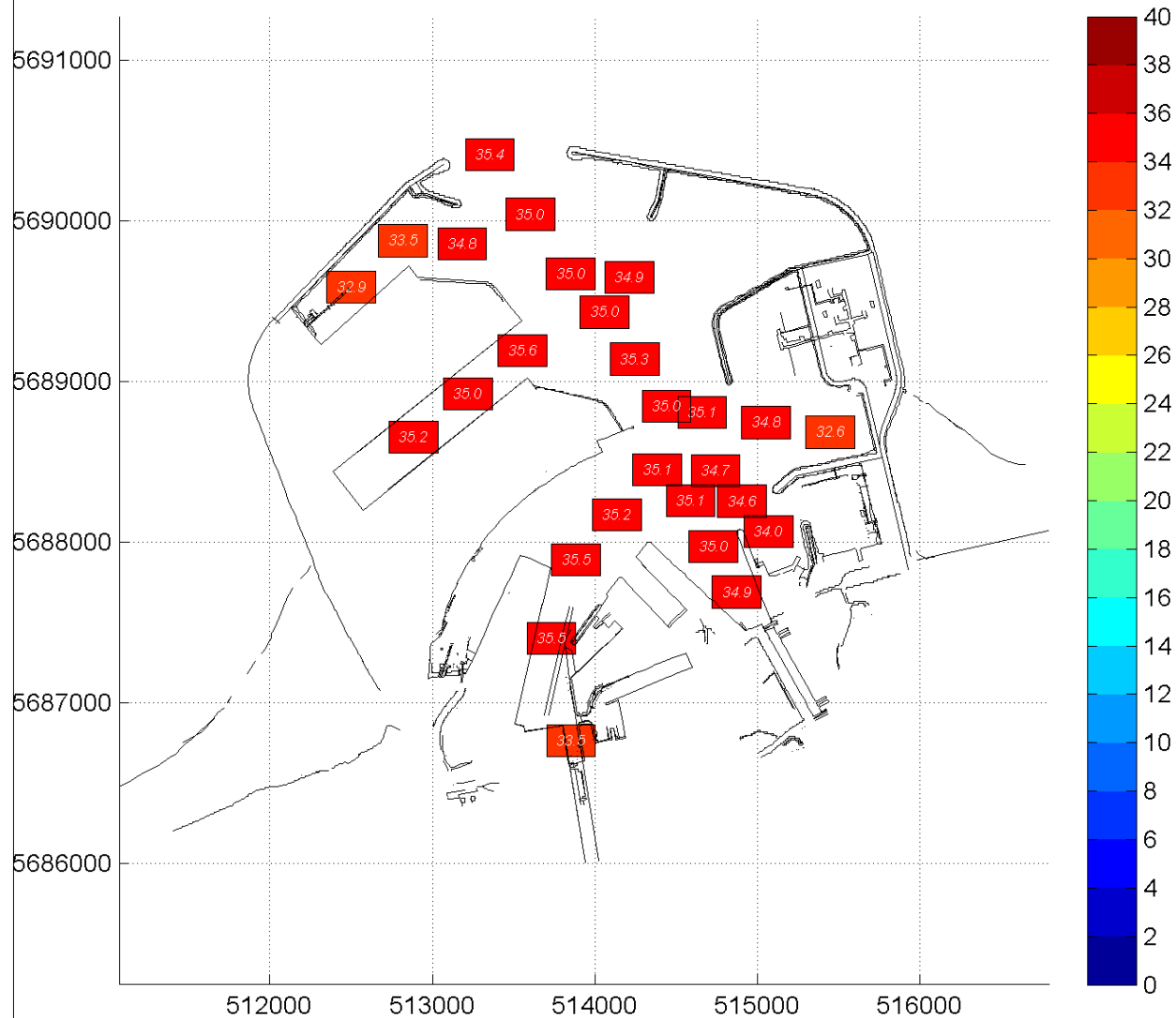
11292 - Zoutmetingen Zeebrugge

Location:

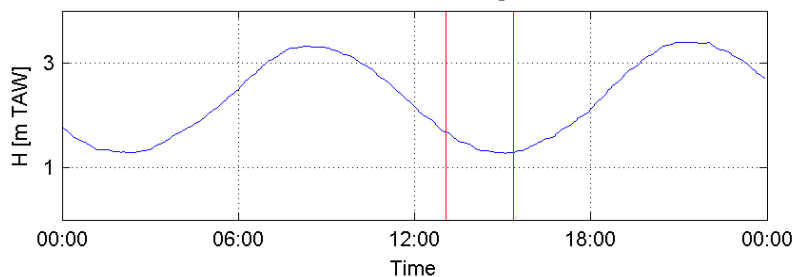
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 23-Aug-2007



HW/LW

07:45: h = 3.29m

21:00: h = 3.4m

14:55: h = 1.28m

Date/time:

23-Aug-2007

13:03 - 15:22

Time after HW

6:28

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

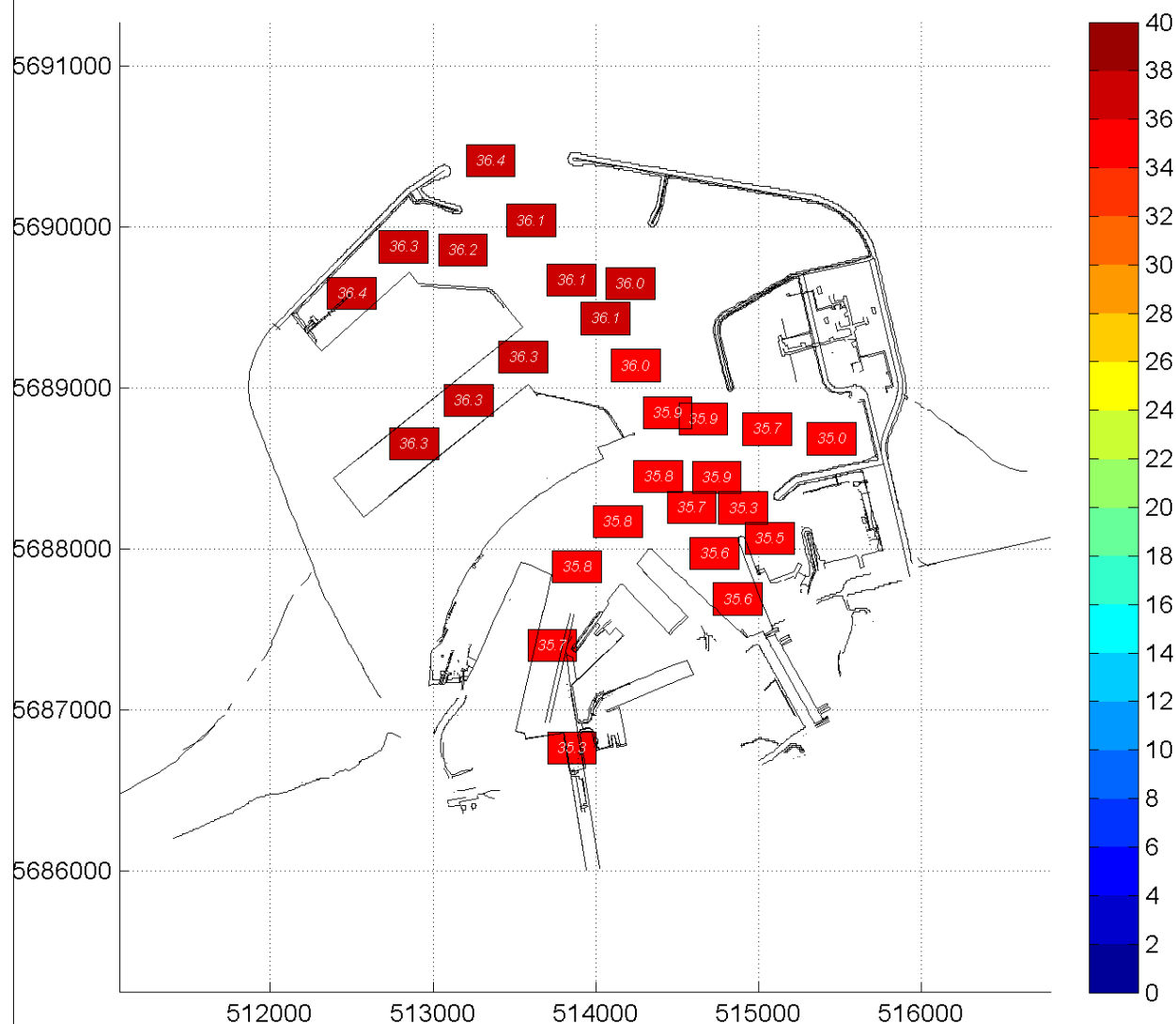
11292 - Zoutmetingen Zeebrugge

Location:

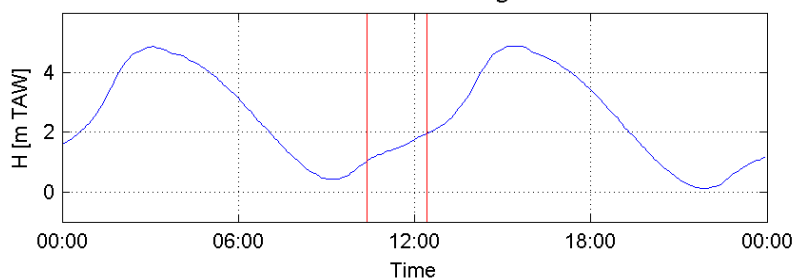
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 31-Aug-2007



HW/LW

03:05: h = 4.87m

15:20: h = 4.88m

09:05: h = 0.43m

Date/time:

31-Aug-2007

10:22 - 12:25

Time after HW

-3:55

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

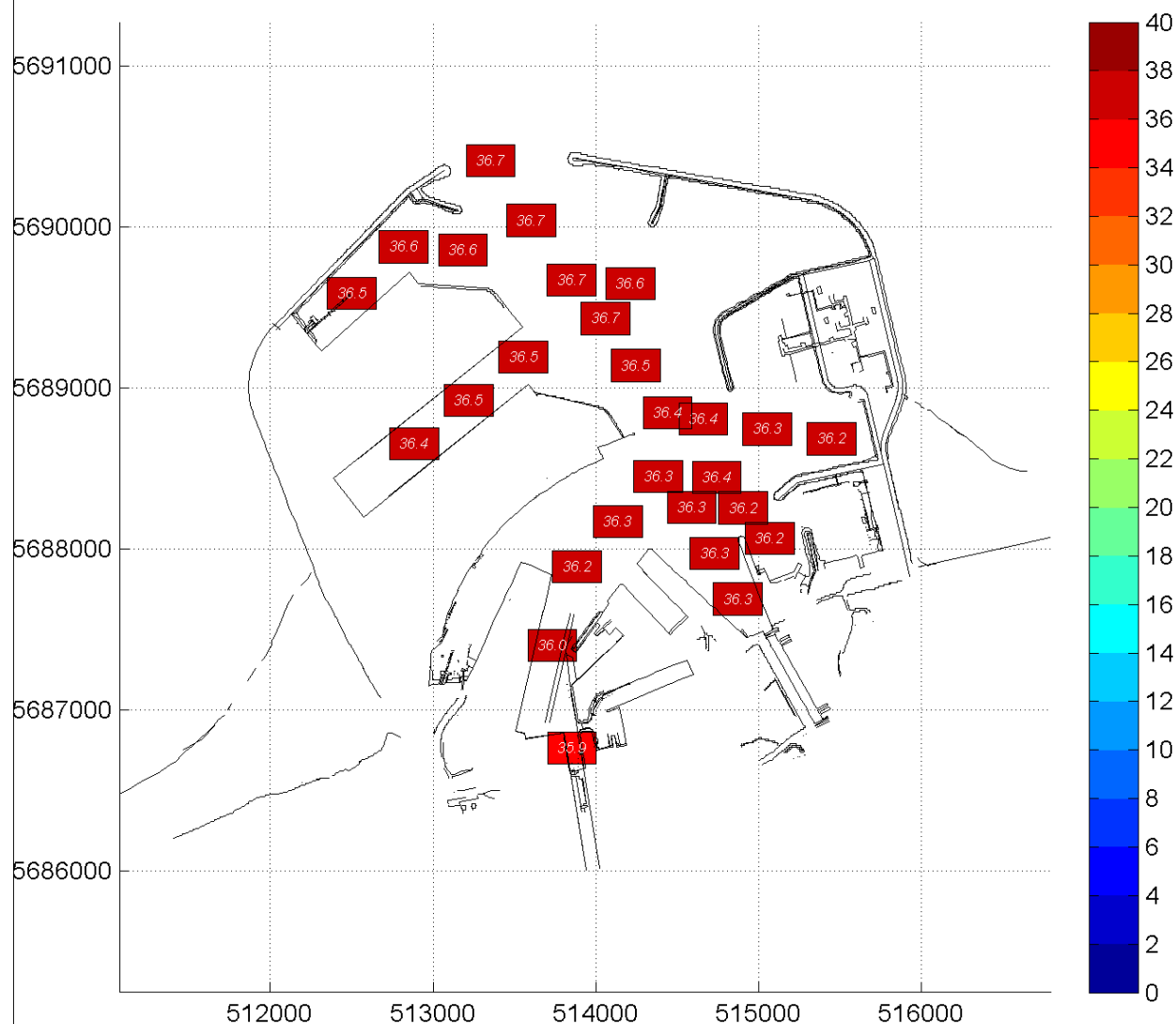
11292 - Zoutmetingen Zeebrugge

Location:

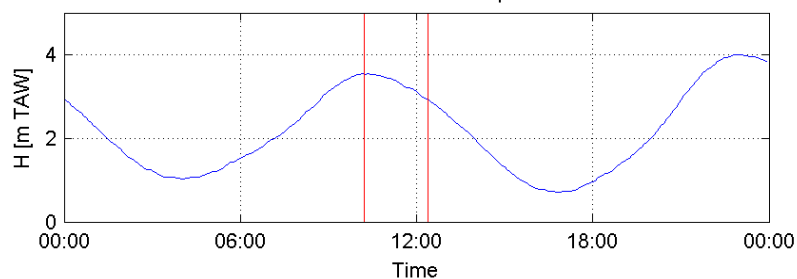
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 07-Sep-2007



HW/LW

10:10: h = 3.54m

22:55: h = 4m

16:45: h = 0.72m

Date/time:

07-Sep-2007

10:12 - 12:22

Time after HW

1:07

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

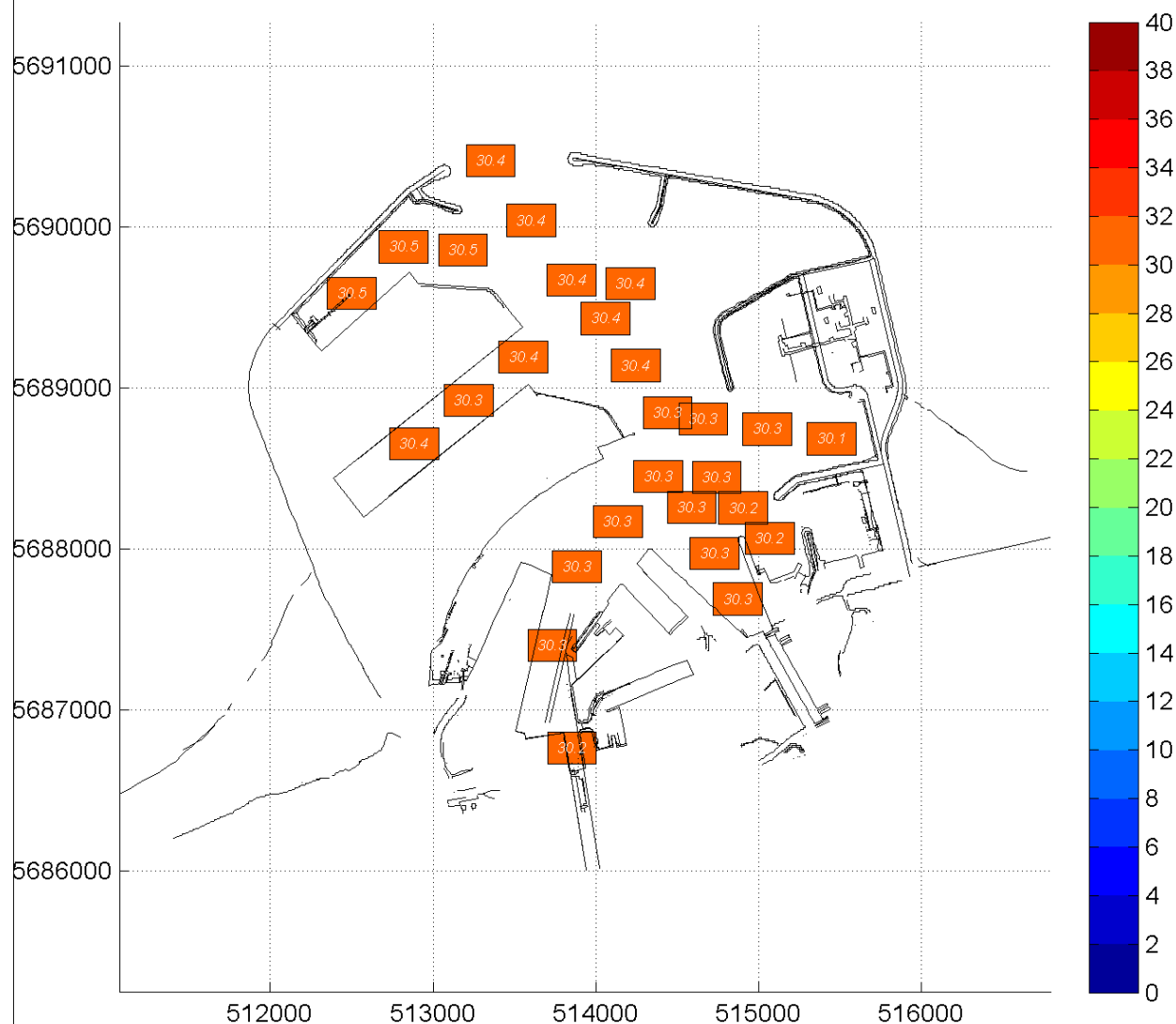
11292 - Zoutmetingen Zeebrugge

Location:

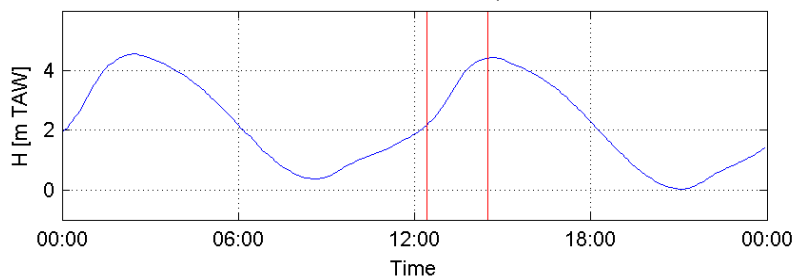
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 13-Sep-2007



HW/LW

02:25: h = 4.55m

14:40: h = 4.44m

08:30: h = 0.37m

Date/time:

13-Sep-2007

12:25 - 14:30

Time after HW

-1:11

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

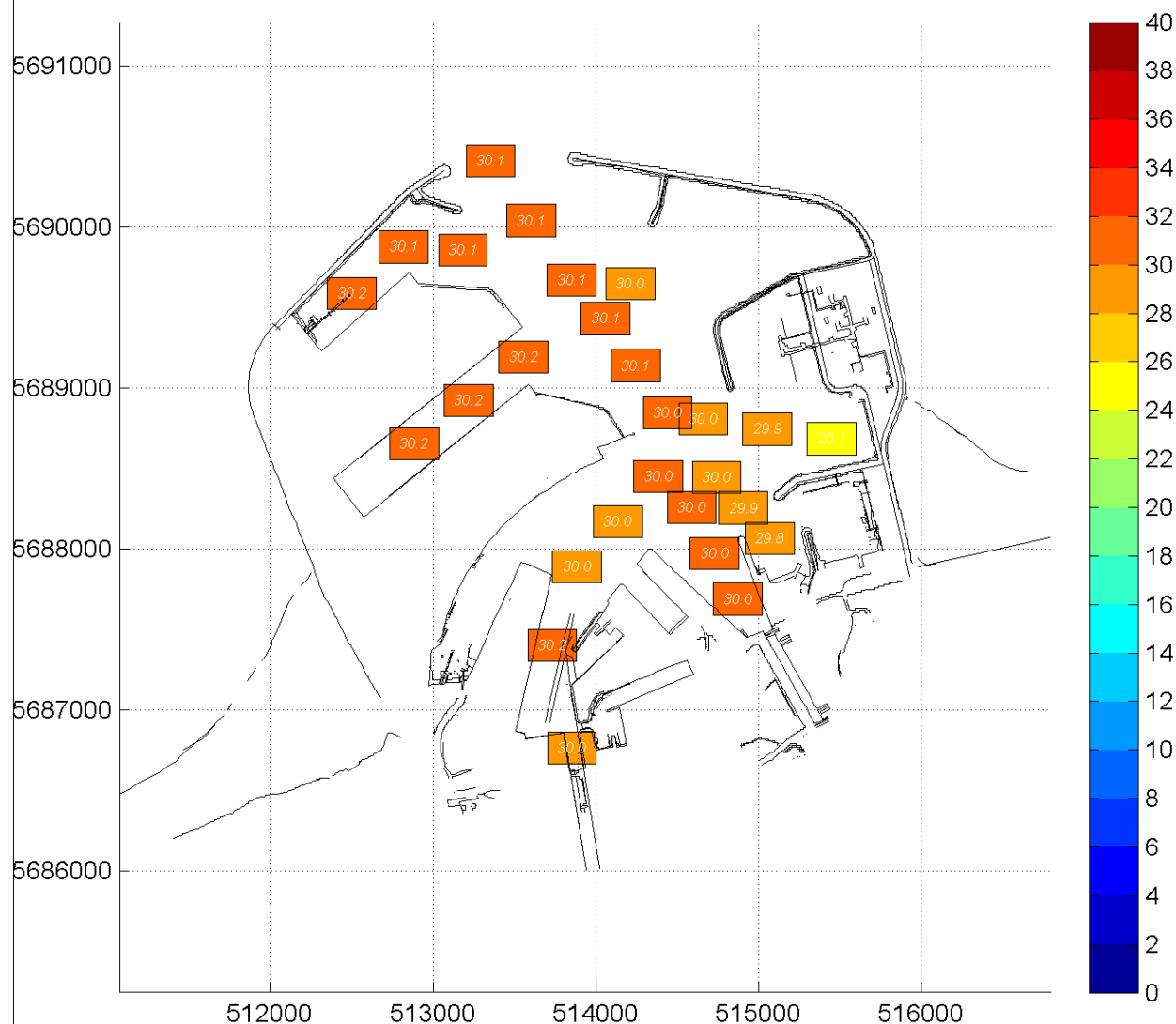
11292 - Zoutmetingen Zeebrugge

Location:

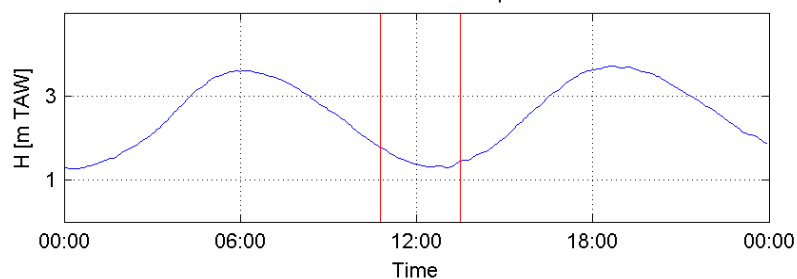
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 20-Sep-2007



HW/LW

05:50: h = 3.61m

18:35: h = 3.72m

12:20: h = 1.31m

Date/time:

20-Sep-2007

10:46 - 13:28

Time after HW

6:17

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

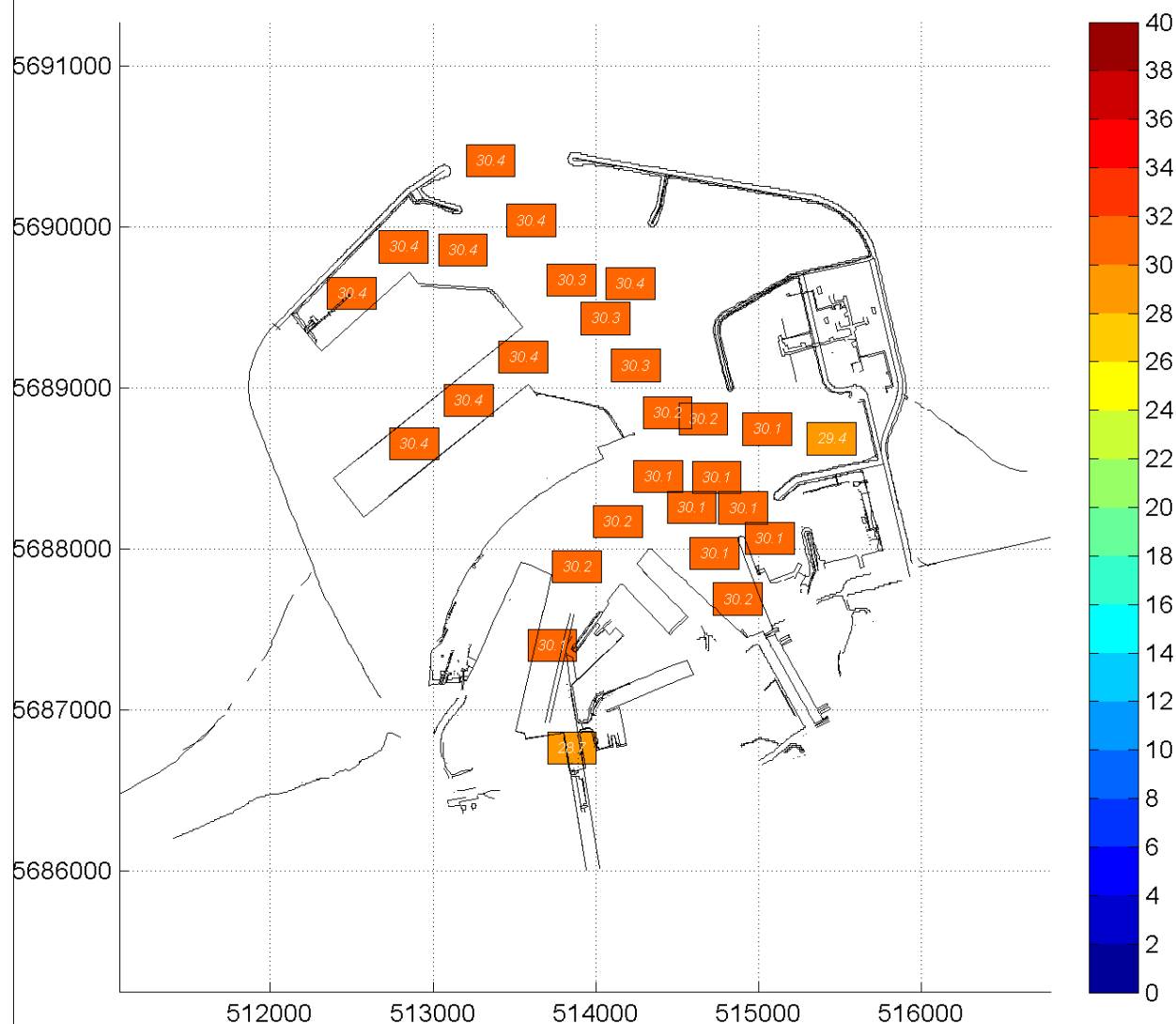
11292 - Zoutmetingen Zeebrugge

Location:

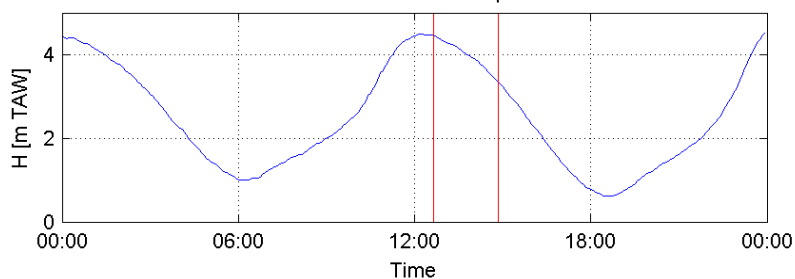
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 25-Sep-2007



HW/LW

12:10: h = 4.49m

00:40: h = NaNm

18:30: h = 0.62m

Date/time:

25-Sep-2007

12:38 - 14:51

Time after HW

1:34

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

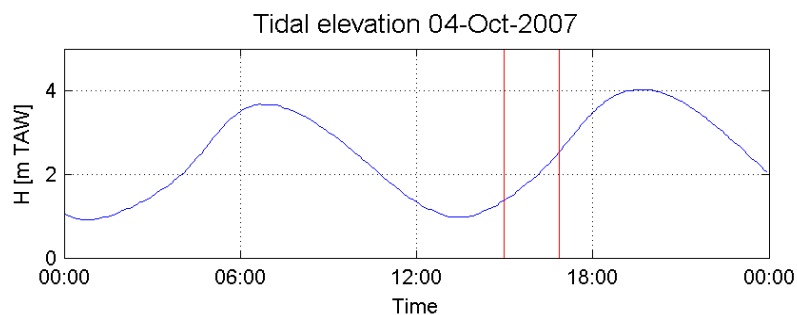
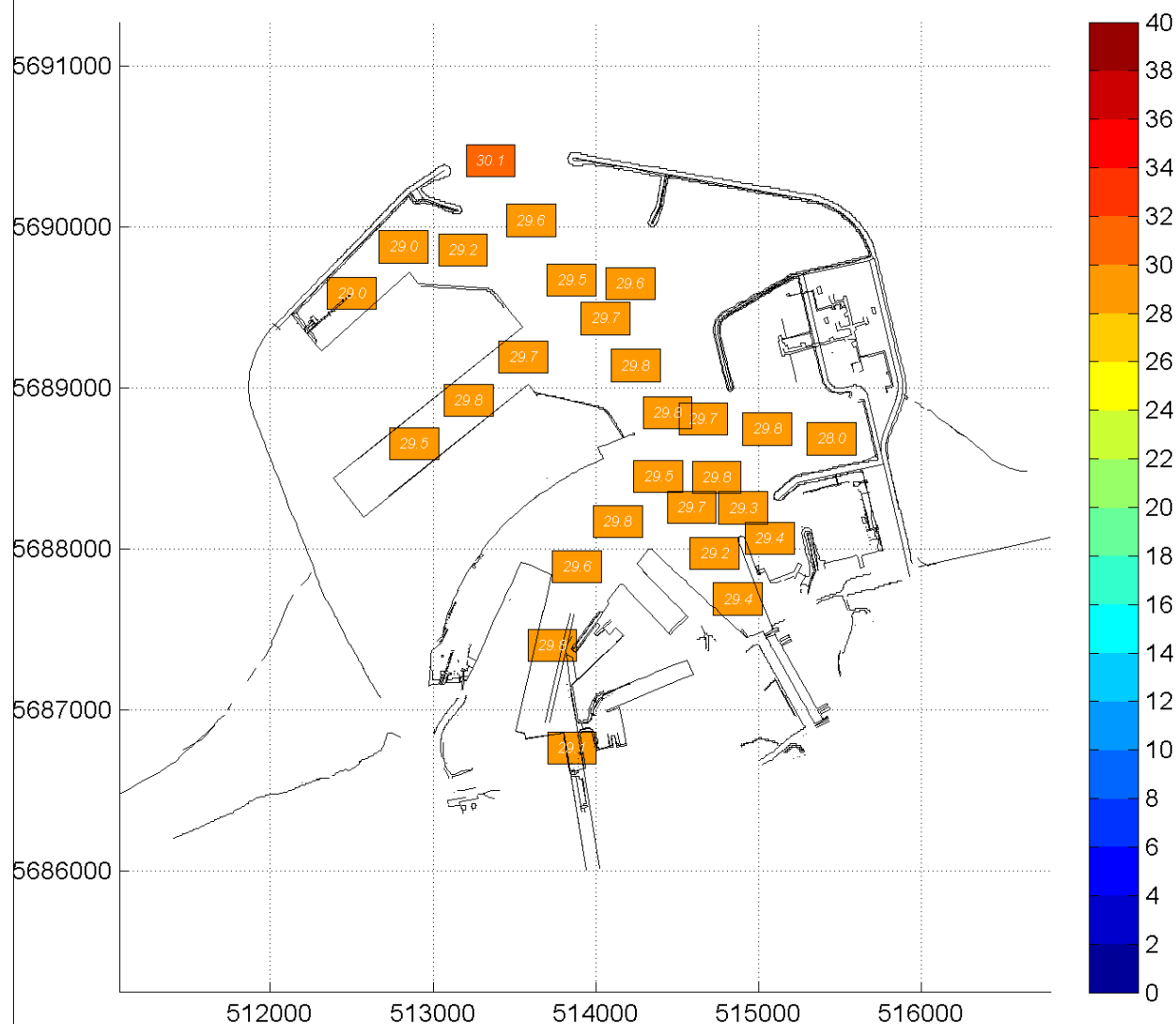
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



06:40: h = 3.68m  
19:35: h = 4.03m  
13:25: h = 0.97m

Date/time:

04-Oct-2007

14:58 - 16:51

Time after HW

-3:40

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

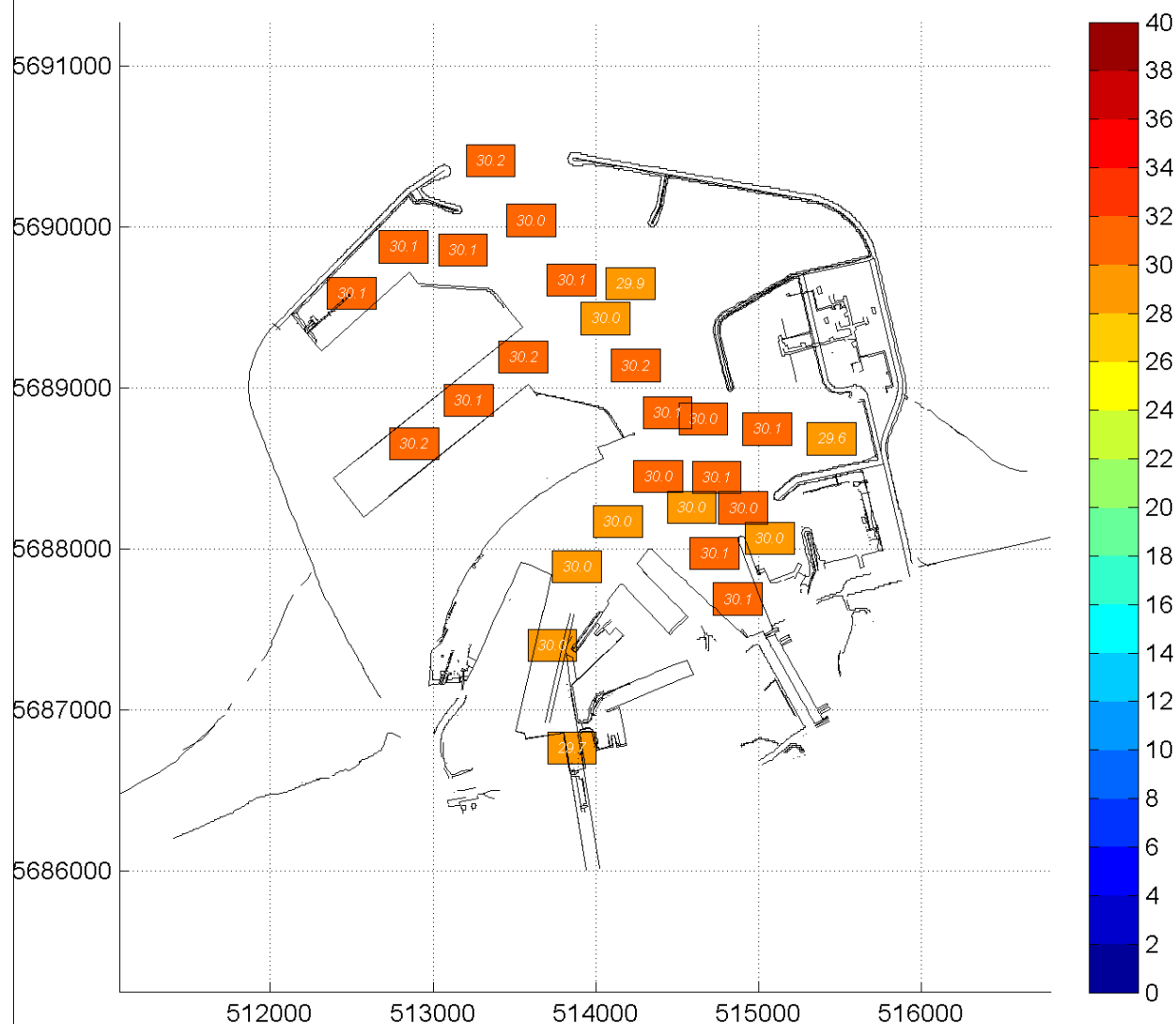
11292 - Zoutmetingen Zeebrugge

Location:

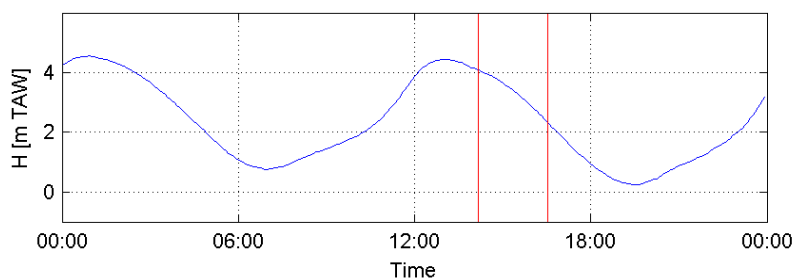
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 10-Oct-2007



HW/LW

00:55: h = 4.55m

13:00: h = 4.44m

06:55: h = 0.76m

Date/time:

10-Oct-2007

14:09 - 16:31

Time after HW

2:20

I/RA/11292/10.123/BQU

Data Processed by:



In association with :



# Horizontal salinity distribution in the port of Zeebrugge

Project:

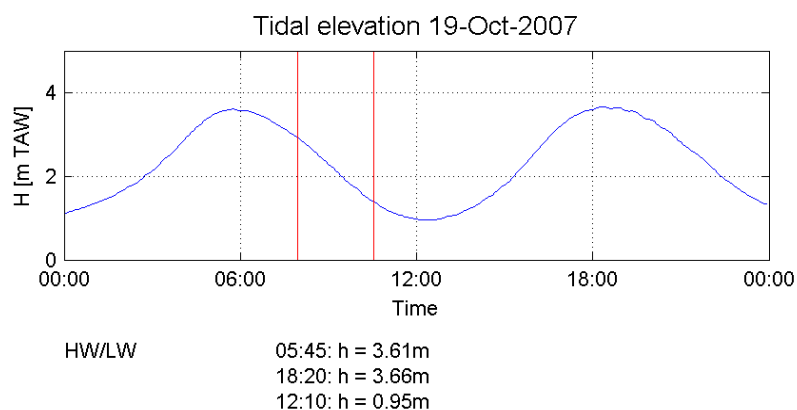
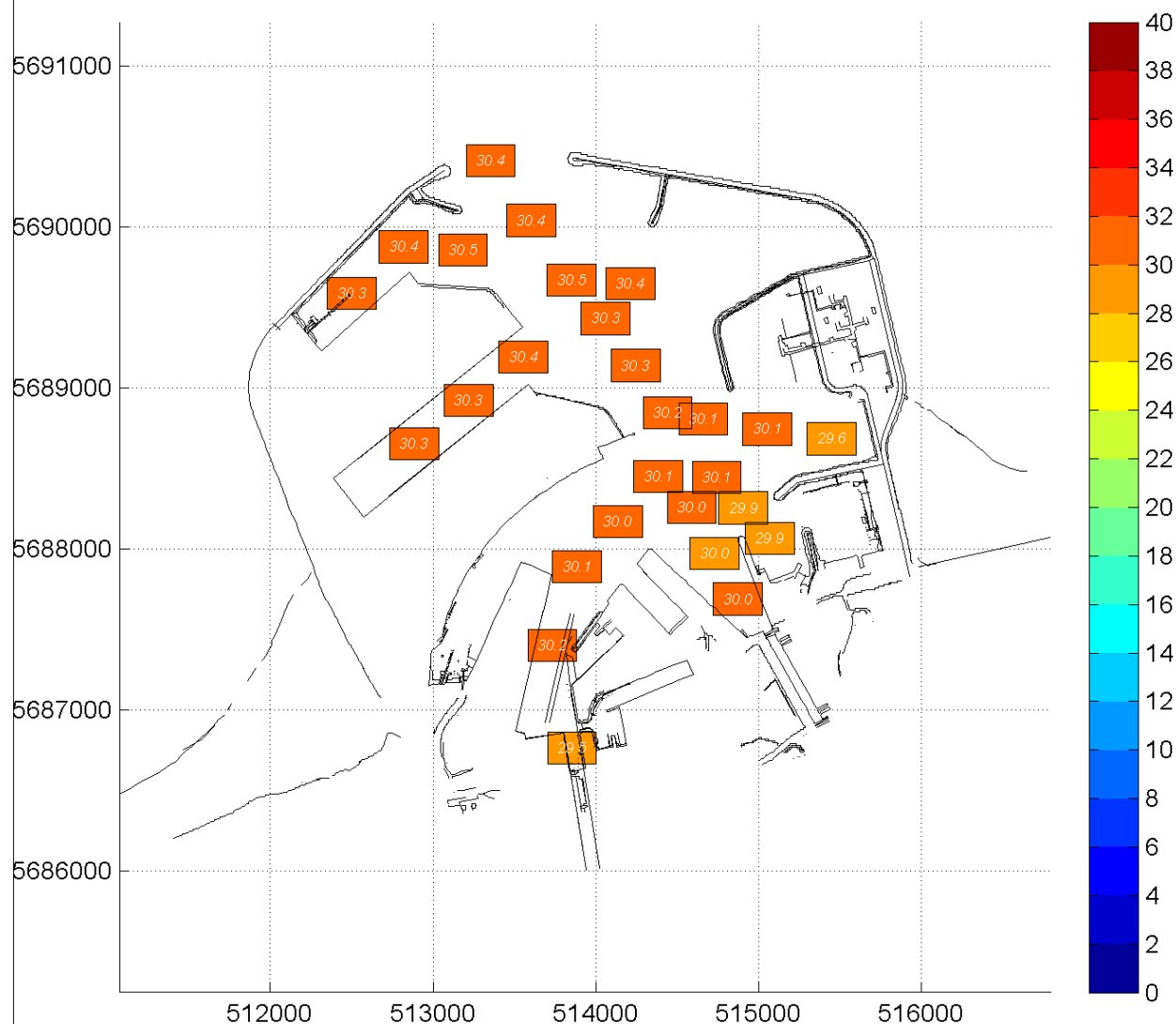
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

19-Oct-2007

07:57 - 10:32

Time after HW

3:30

I/RA/11292/10.123/BQU

Data Processed by:



In association with :



# Horizontal salinity distribution in the port of Zeebrugge

Project:

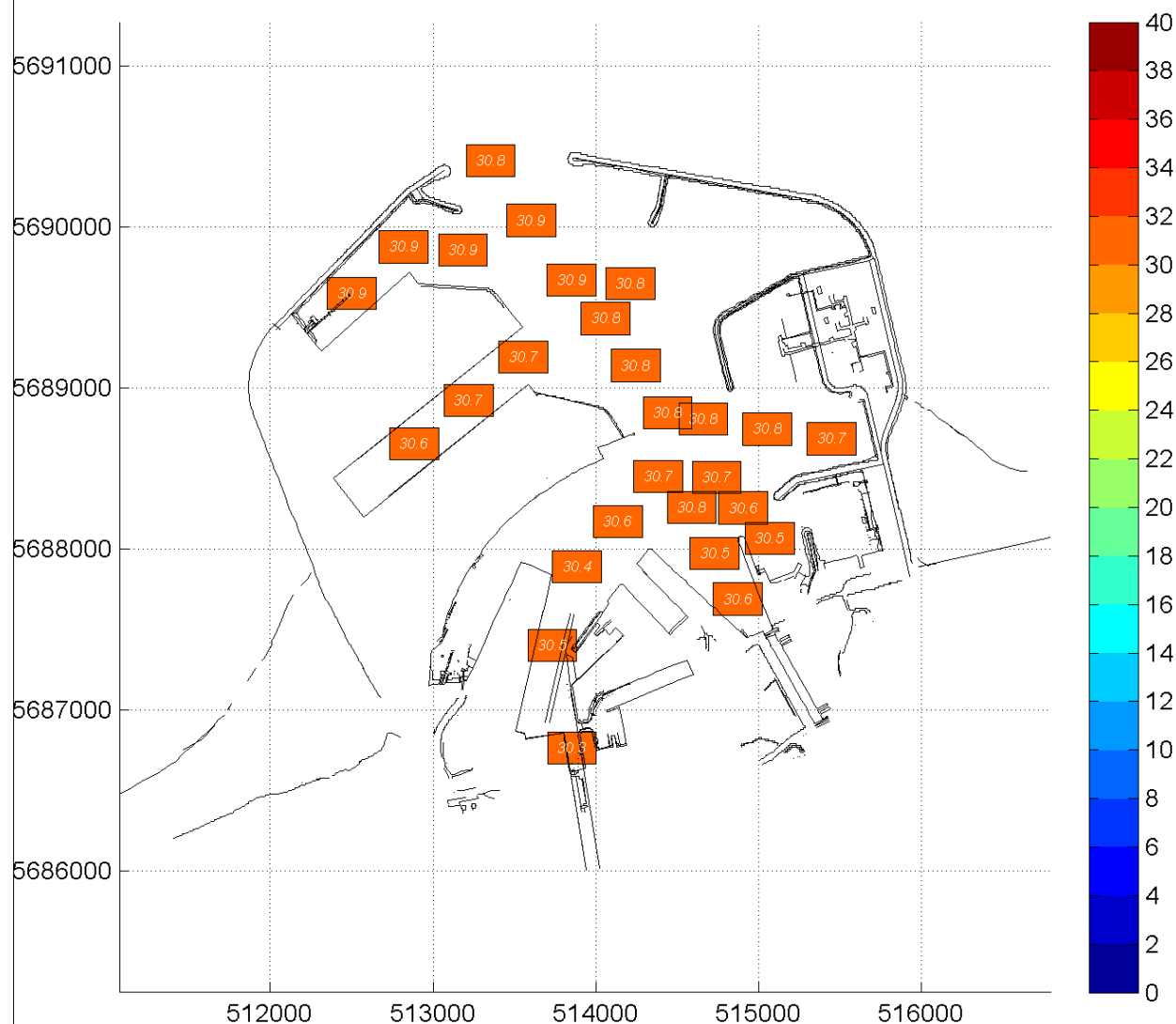
11292 - Zoutmetingen Zeebrugge

Location:

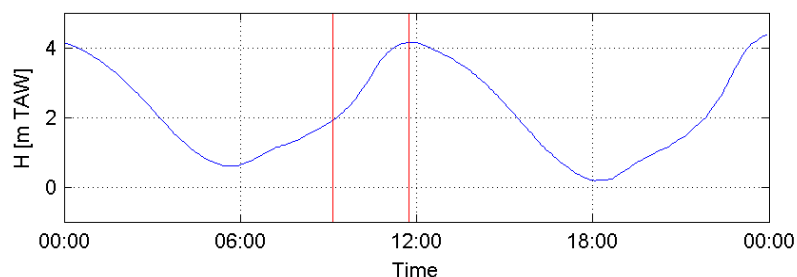
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 24-Oct-2007



HW/LW

11:50: h = 4.16m

00:15: h = NaNm

18:05: h = 0.18m

Date/time:

24-Oct-2007

09:09 - 11:44

Time after HW

-1:23

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

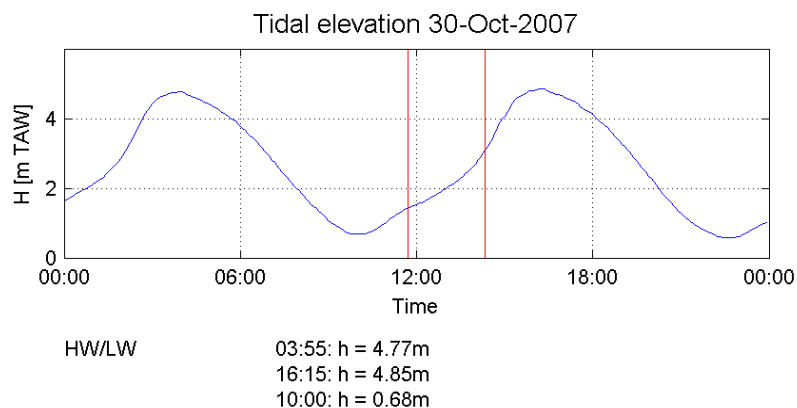
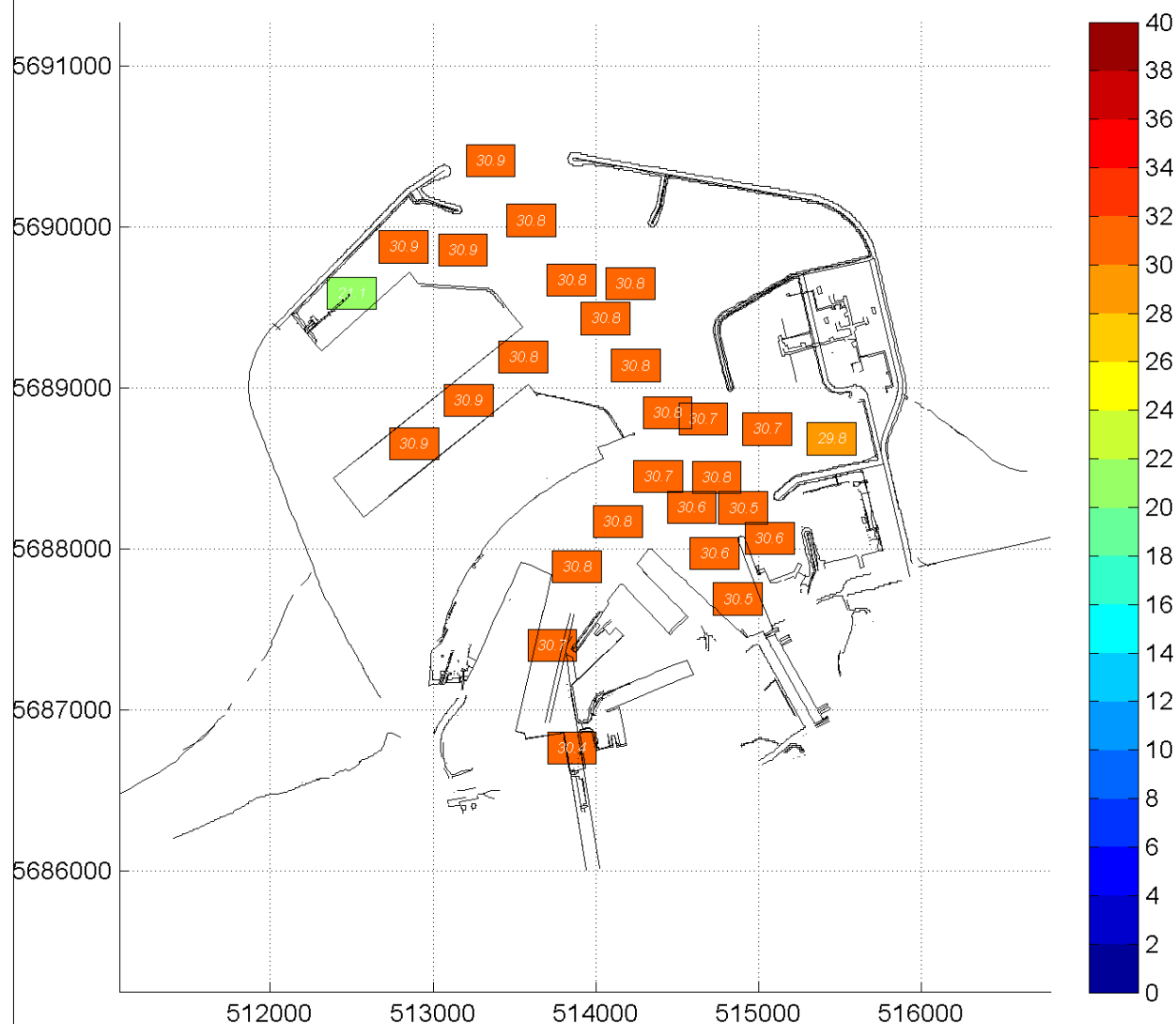
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

30-Oct-2007

11:42 - 14:20

Time after HW

-3:13

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

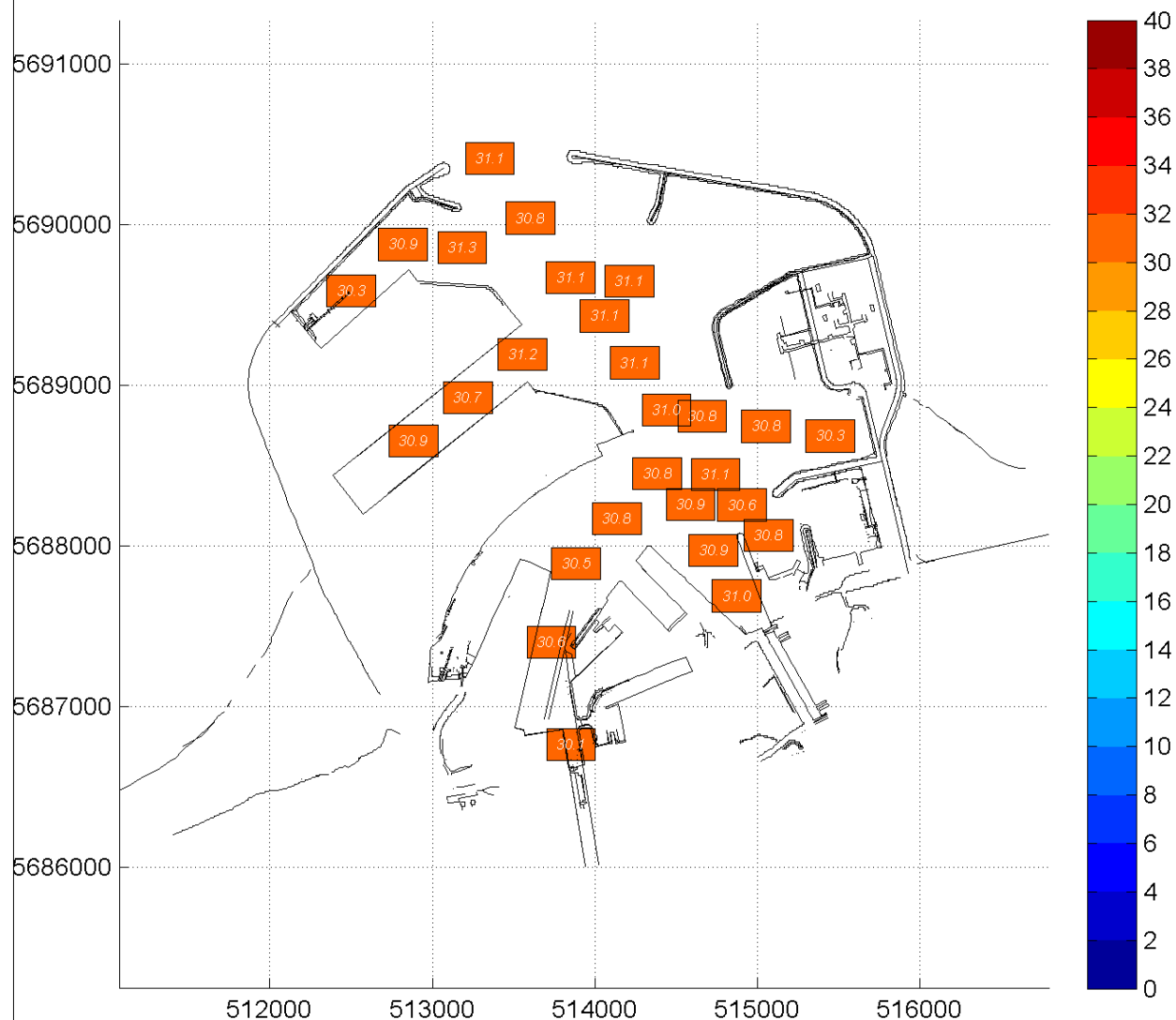
11292 - Zoutmetingen Zeebrugge

Location:

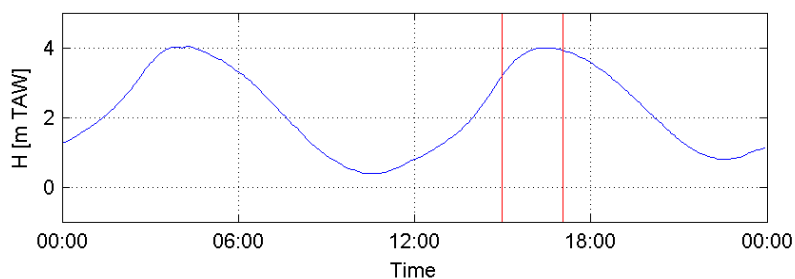
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 15-Nov-2007



HW/LW

03:50: h = 4.02m

16:15: h = 4m

10:25: h = 0.38m

Date/time:

15-Nov-2007

14:59 - 17:02

Time after HW

-0:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

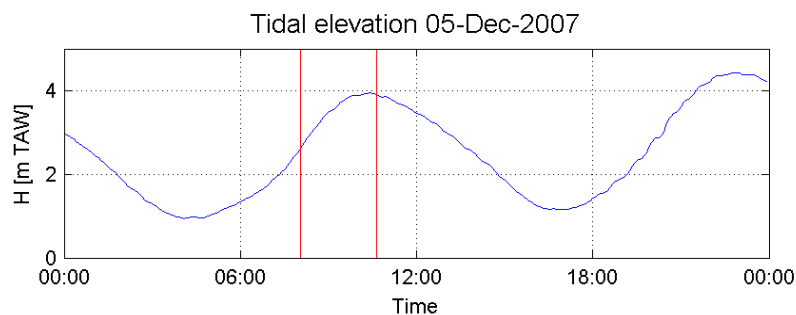
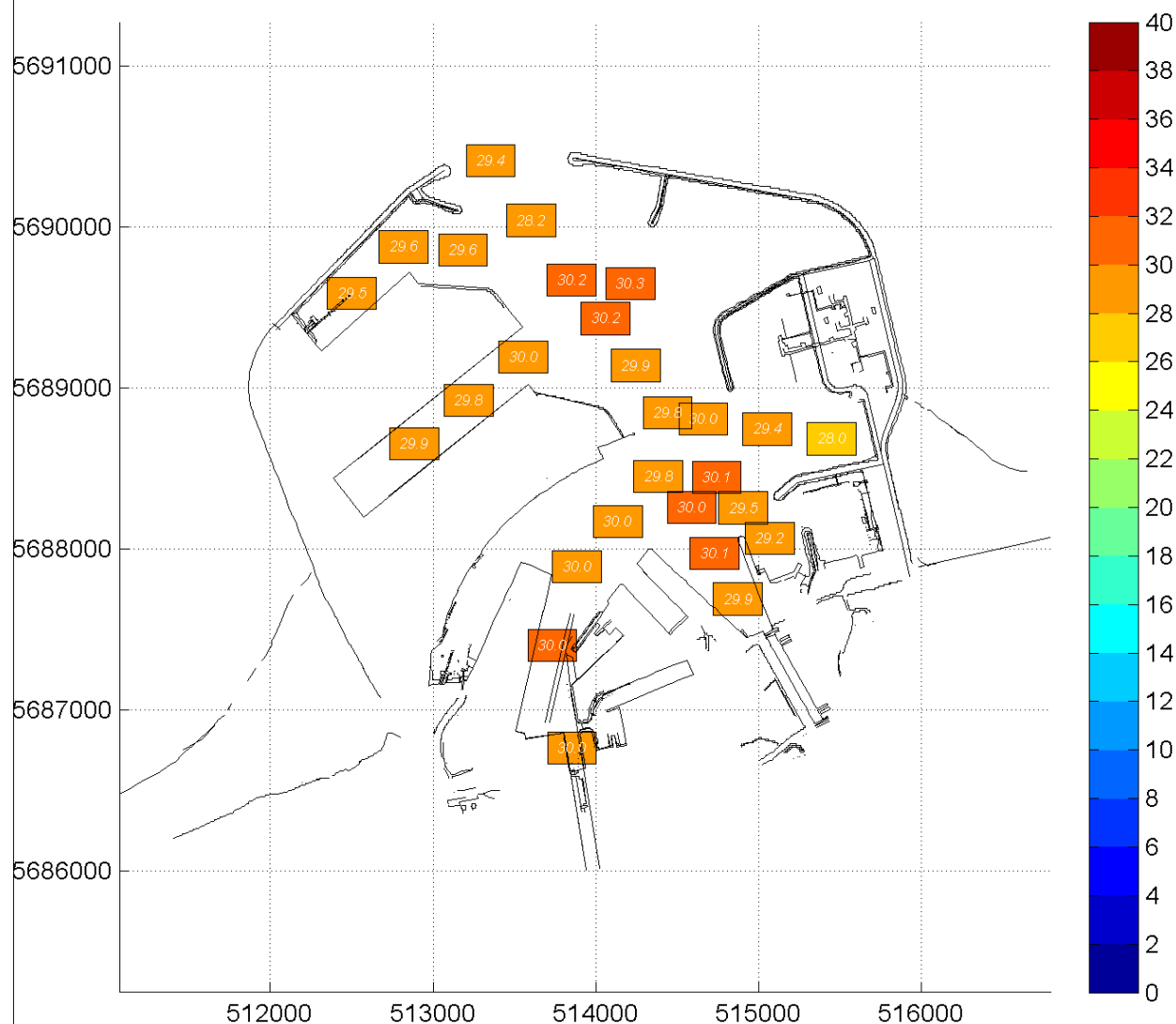
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

09:50: h = 3.89m

22:45: h = 4.43m

16:30: h = 1.17m

Date/time:

05-Dec-2007

08:03 - 10:38

Time after HW

-0:29

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

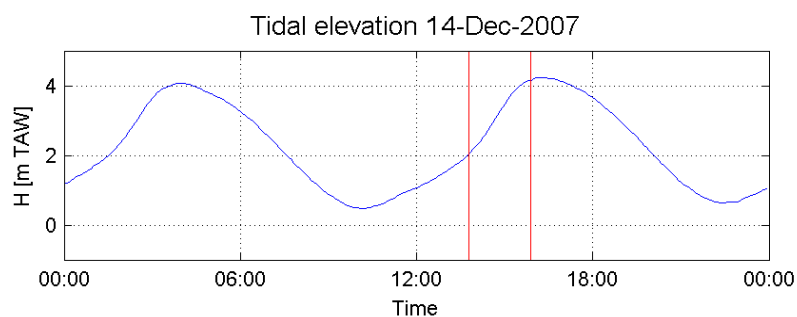
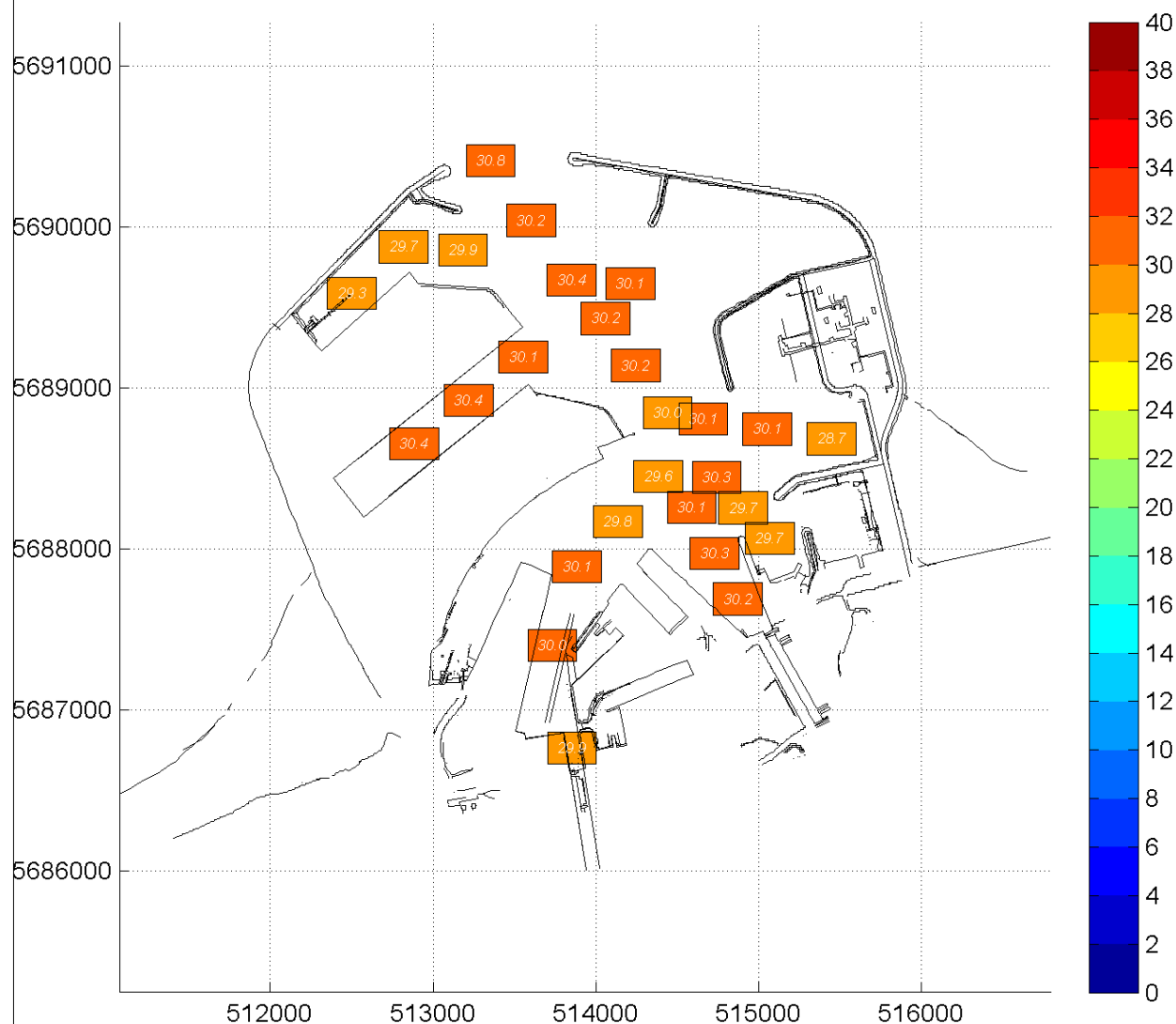
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

03:55: h = 4.07m

16:10: h = 4.23m

10:05: h = 0.48m

Date/time:

14-Dec-2007

13:46 - 15:53

Time after HW

-1:19

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

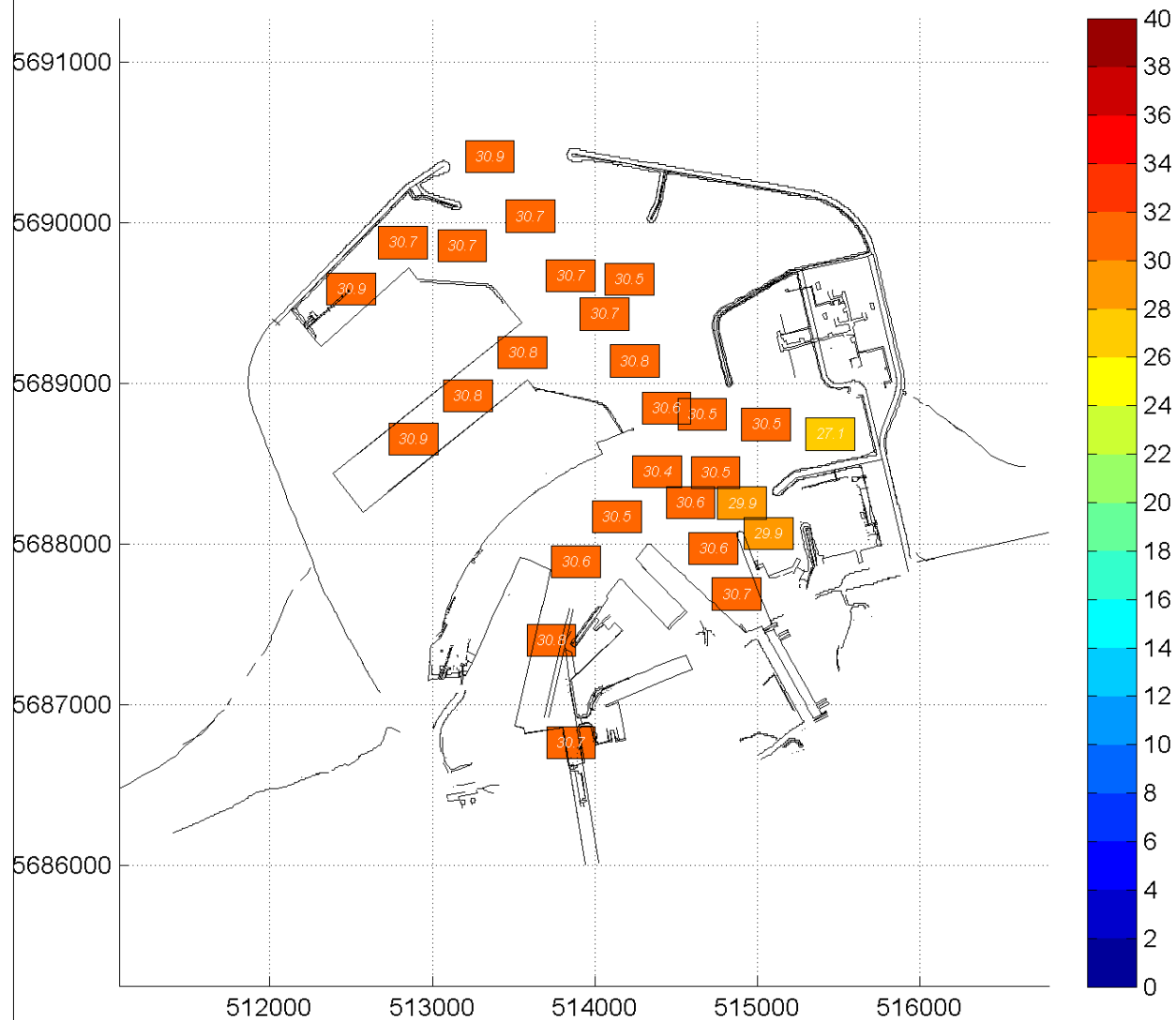
11292 - Zoutmetingen Zeebrugge

Location:

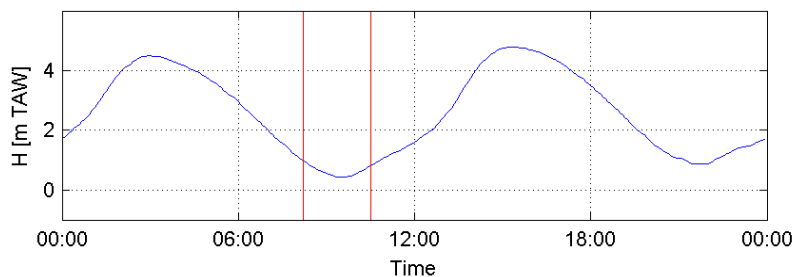
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 11-Jan-2008



HW/LW

02:55: h = 4.49m

15:20: h = 4.8m

09:30: h = 0.43m

Date/time:

11-Jan-2008

08:12 - 10:29

Time after HW

6:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

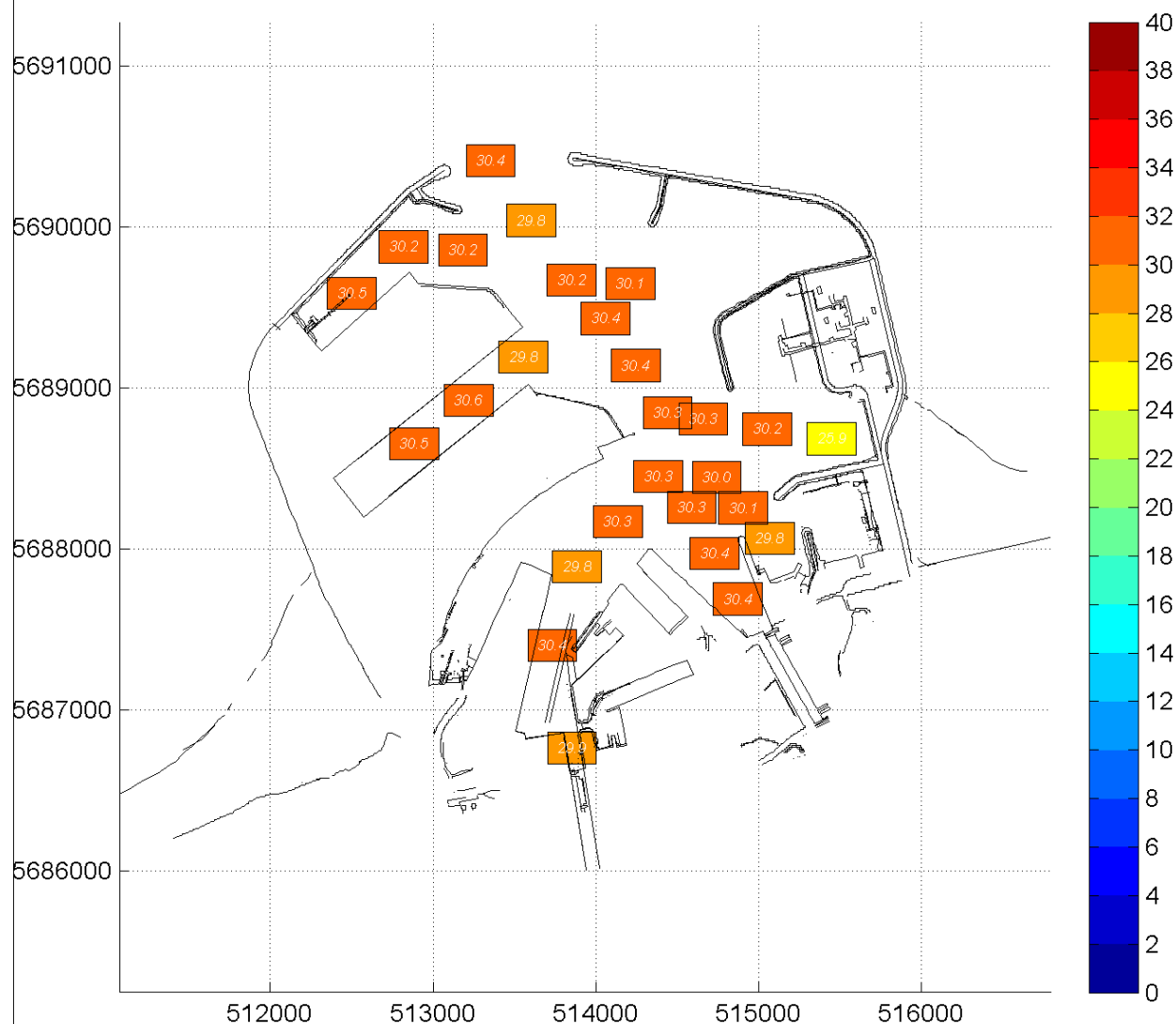
11292 - Zoutmetingen Zeebrugge

Location:

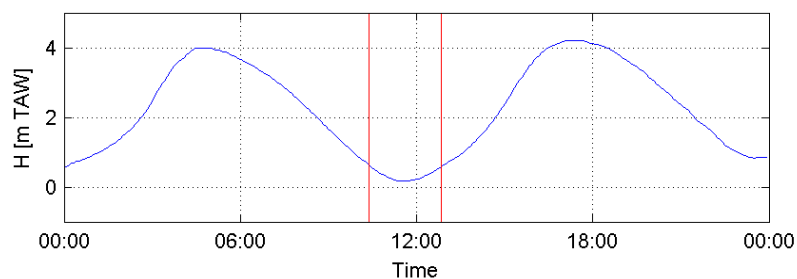
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 14-Jan-2008



HW/LW

04:40: h = 4m  
17:20: h = 4.21m  
11:25: h = 0.17m

Date/time:

14-Jan-2008

10:23 - 12:49

Time after HW

-5:43

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

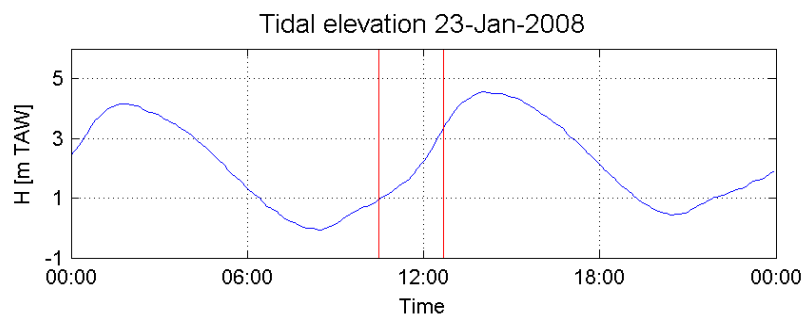
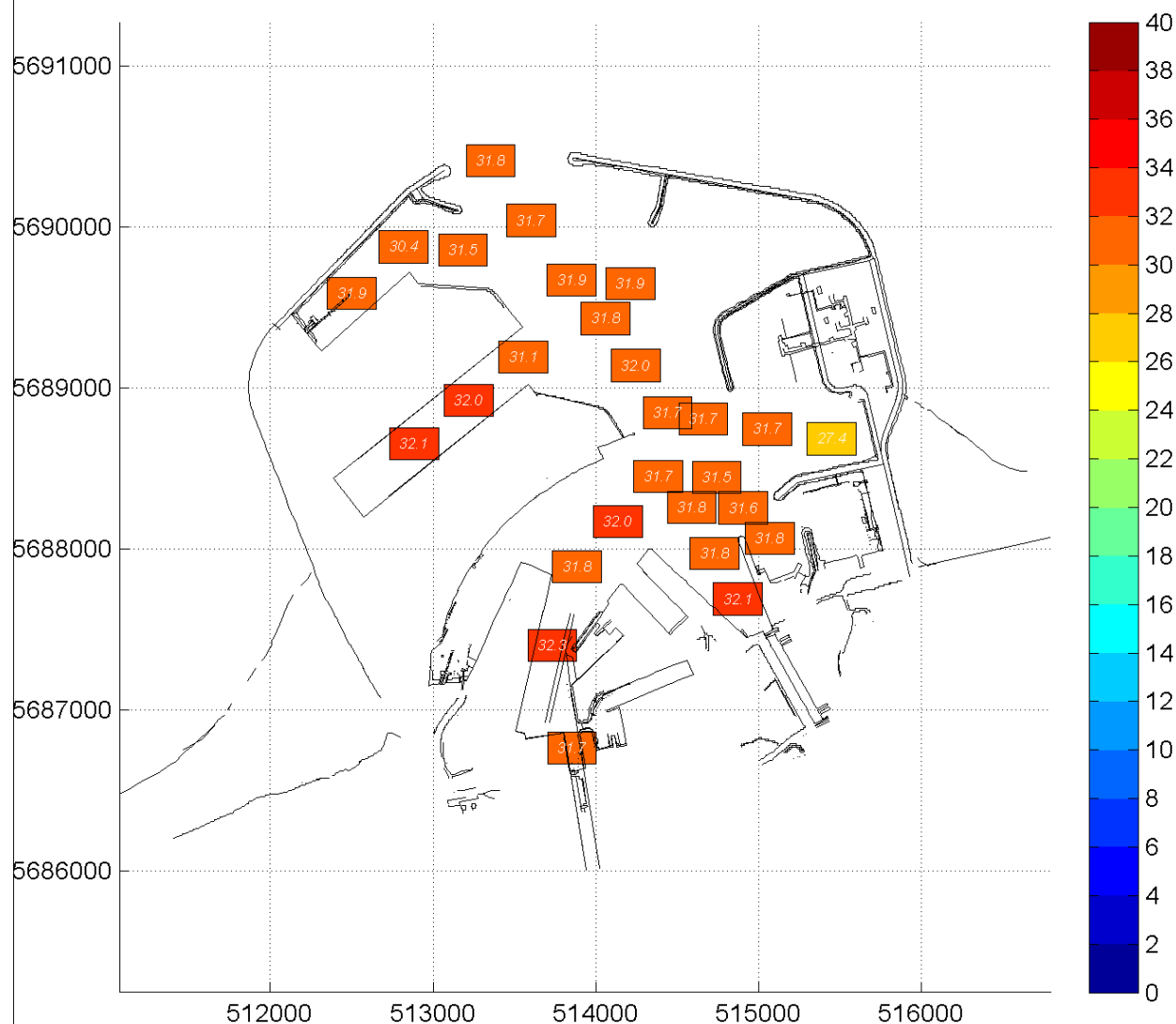
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

01:45: h = 4.17m

14:00: h = 4.55m

08:25: h = -0.06m

Date/time:

23-Jan-2008

10:28 - 12:41

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

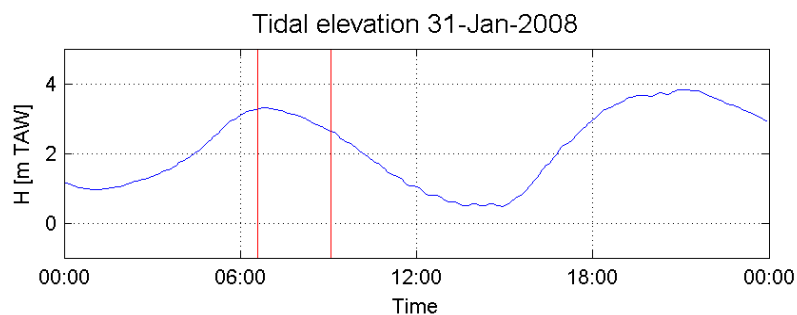
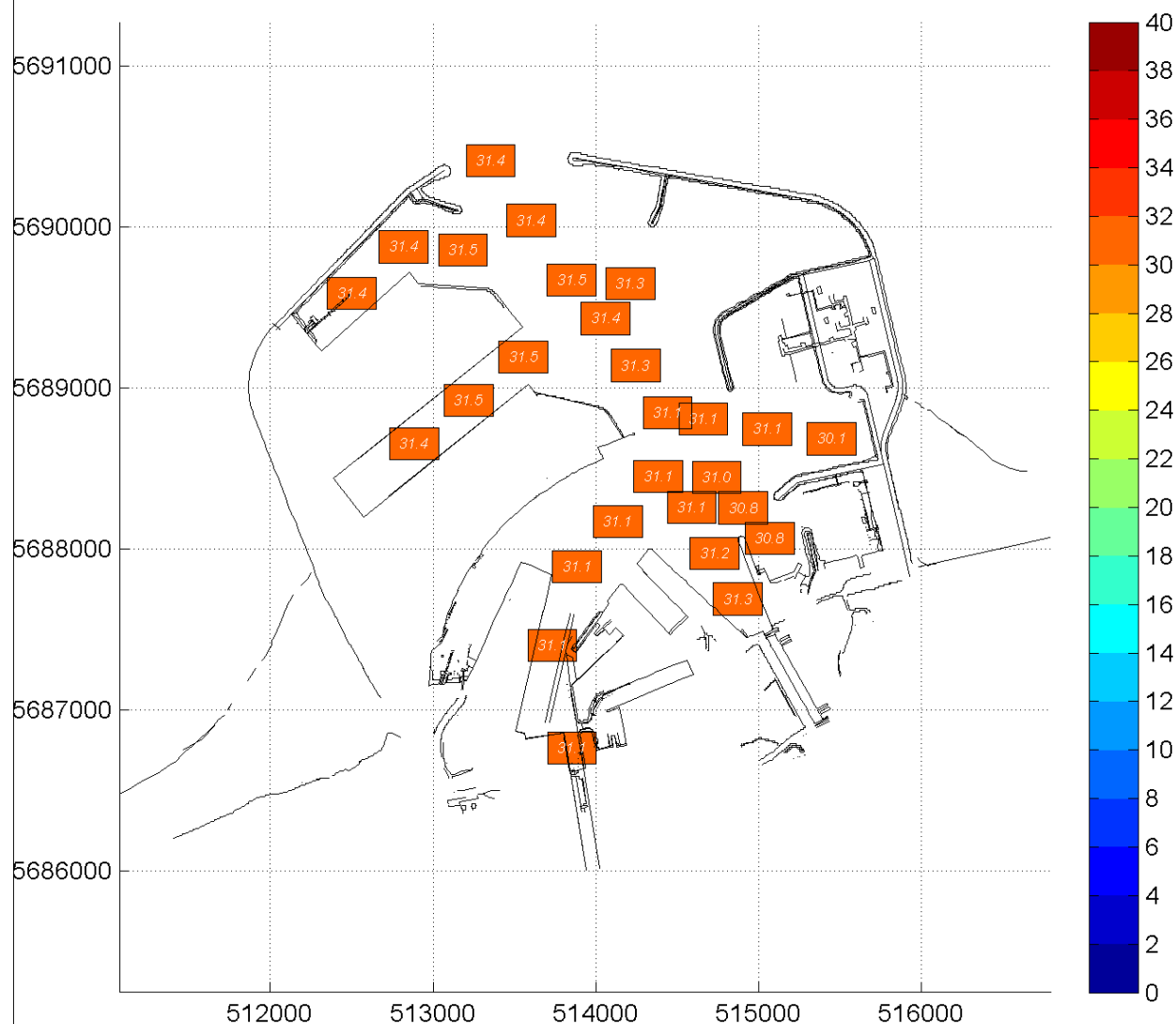
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

06:45: h = 3.31m

19:45: h = 3.67m

13:40: h = 0.5m

Date/time:

31-Jan-2008

06:36 - 09:04

Time after HW

1:05

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

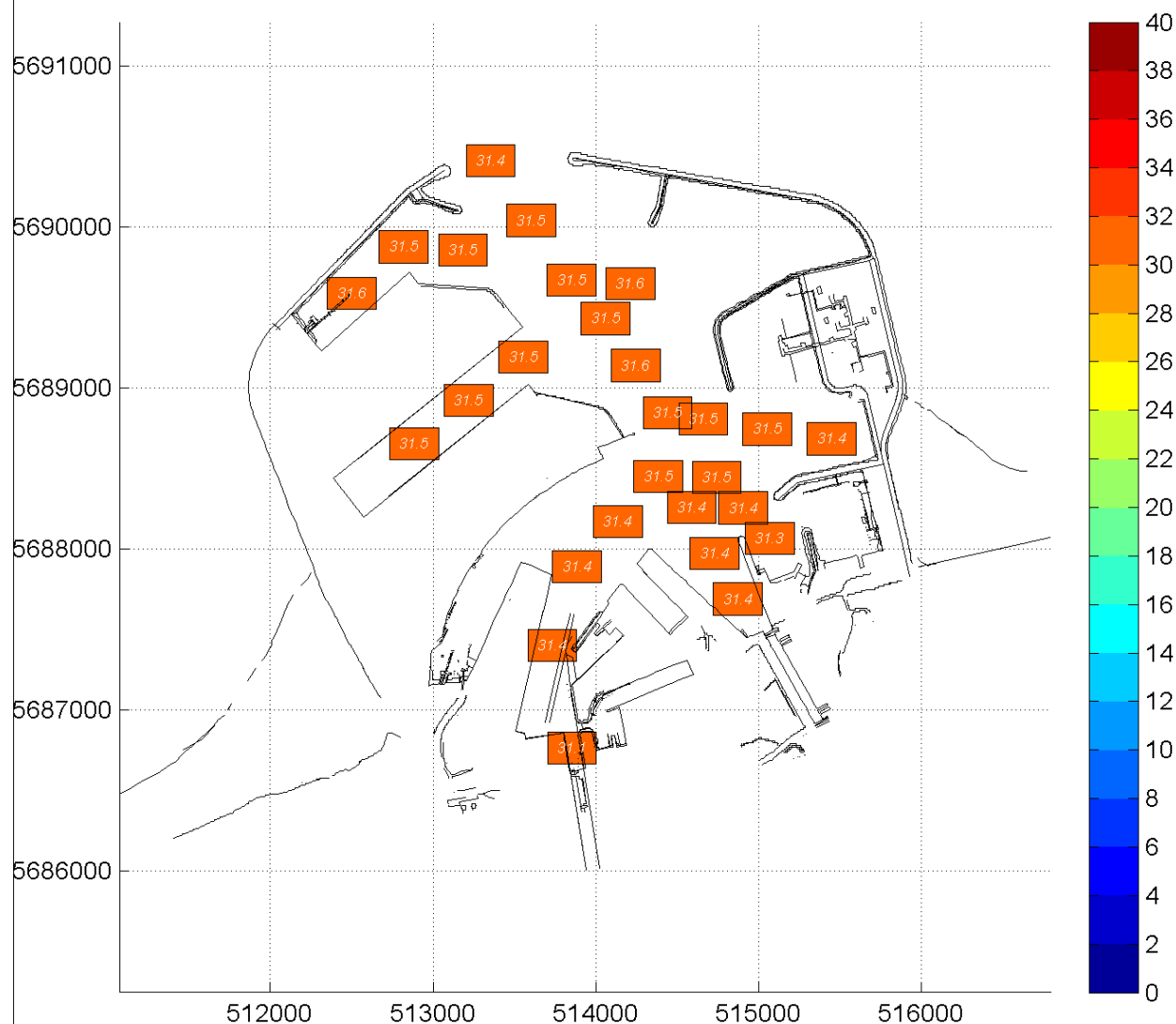
11292 - Zoutmetingen Zeebrugge

Location:

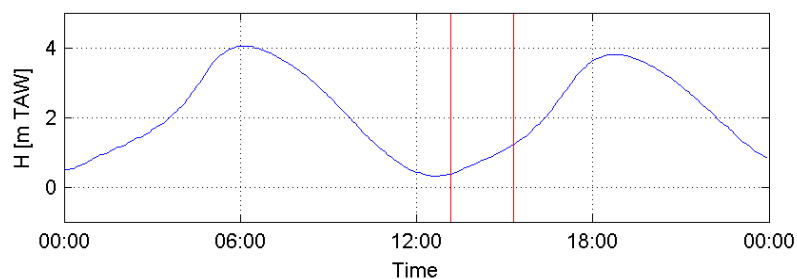
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 14-Feb-2008



HW/LW

06:00: h = 4.05m

18:40: h = 3.81m

12:30: h = 0.31m

Date/time:

14-Feb-2008

13:09 - 15:18

Time after HW

-4:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

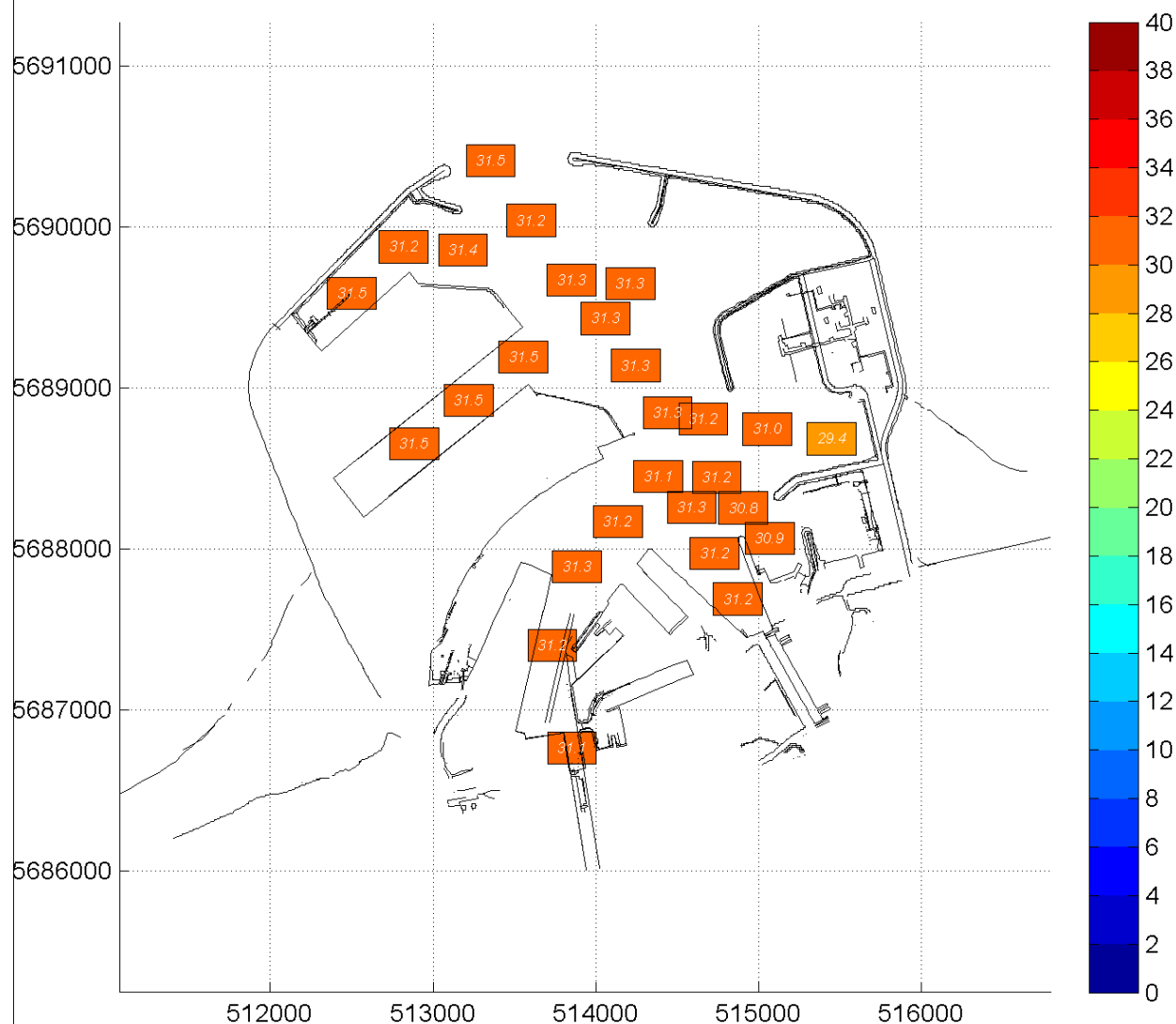
11292 - Zoutmetingen Zeebrugge

Location:

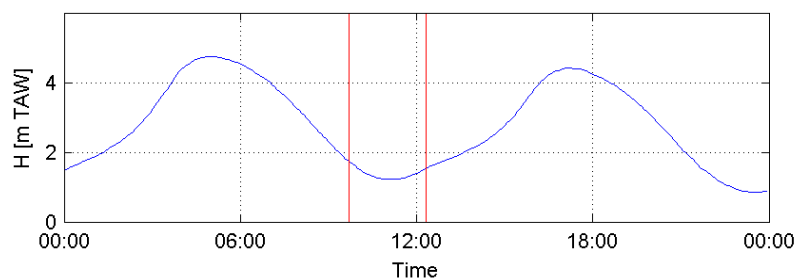
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 27-Feb-2008



HW/LW

04:50: h = 4.74m

17:10: h = 4.43m

10:55: h = 1.22m

Date/time:

27-Feb-2008

09:42 - 12:19

Time after HW

-6:09

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

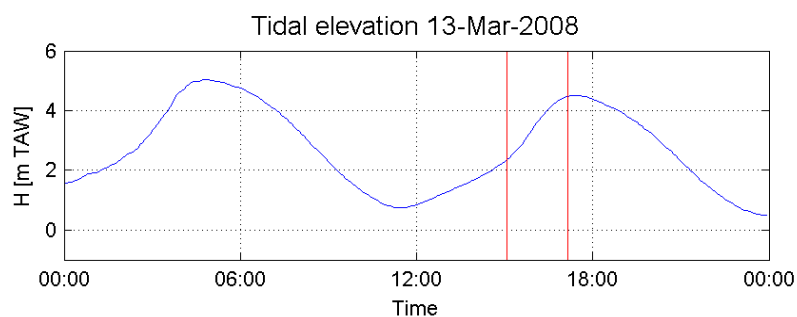
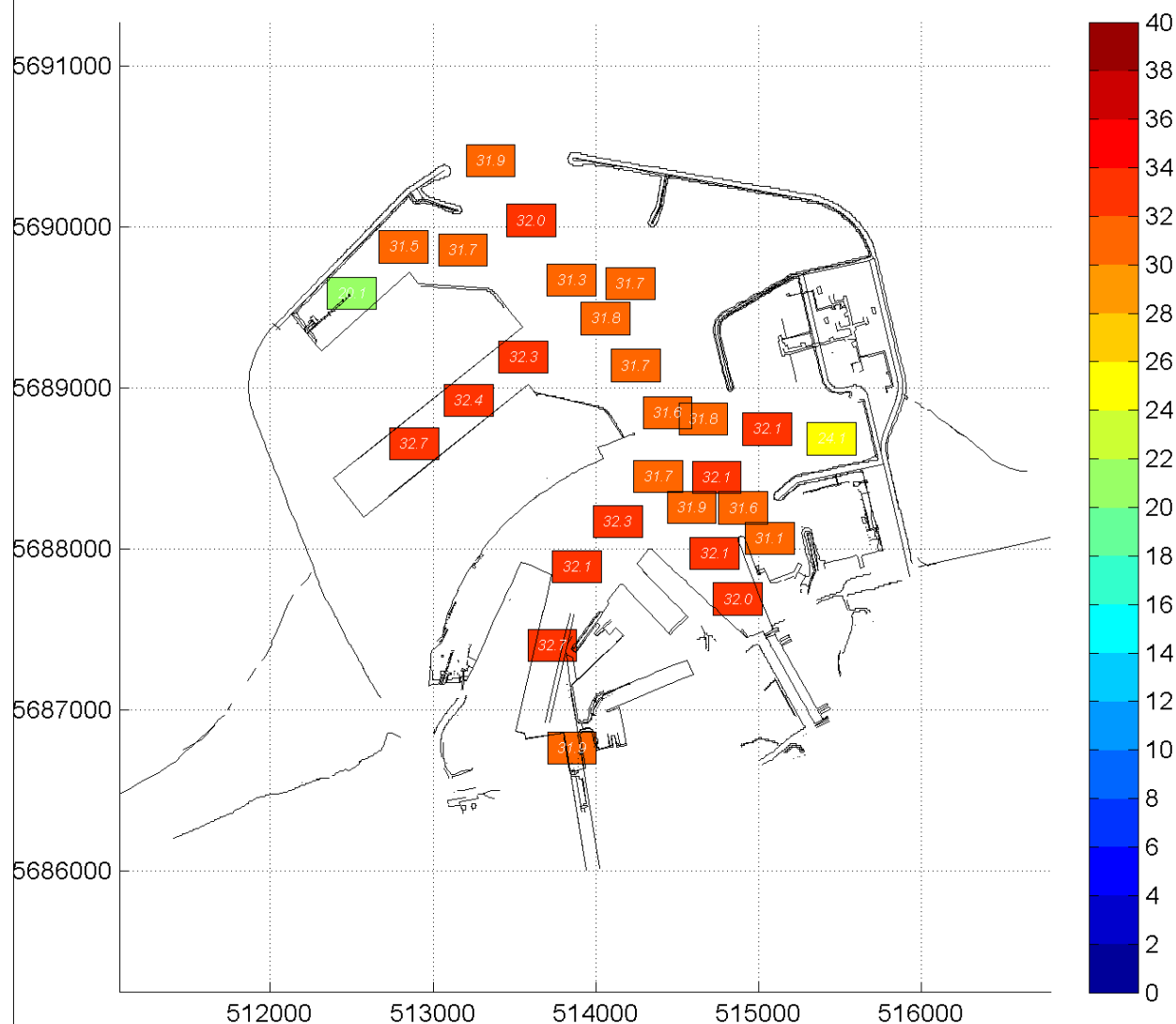
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



HW/LW

04:45: h = 5.03m

17:25: h = 4.51m

11:20: h = 0.74m

Date/time:

13-Mar-2008

15:05 - 17:08

Time after HW

-1:18

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

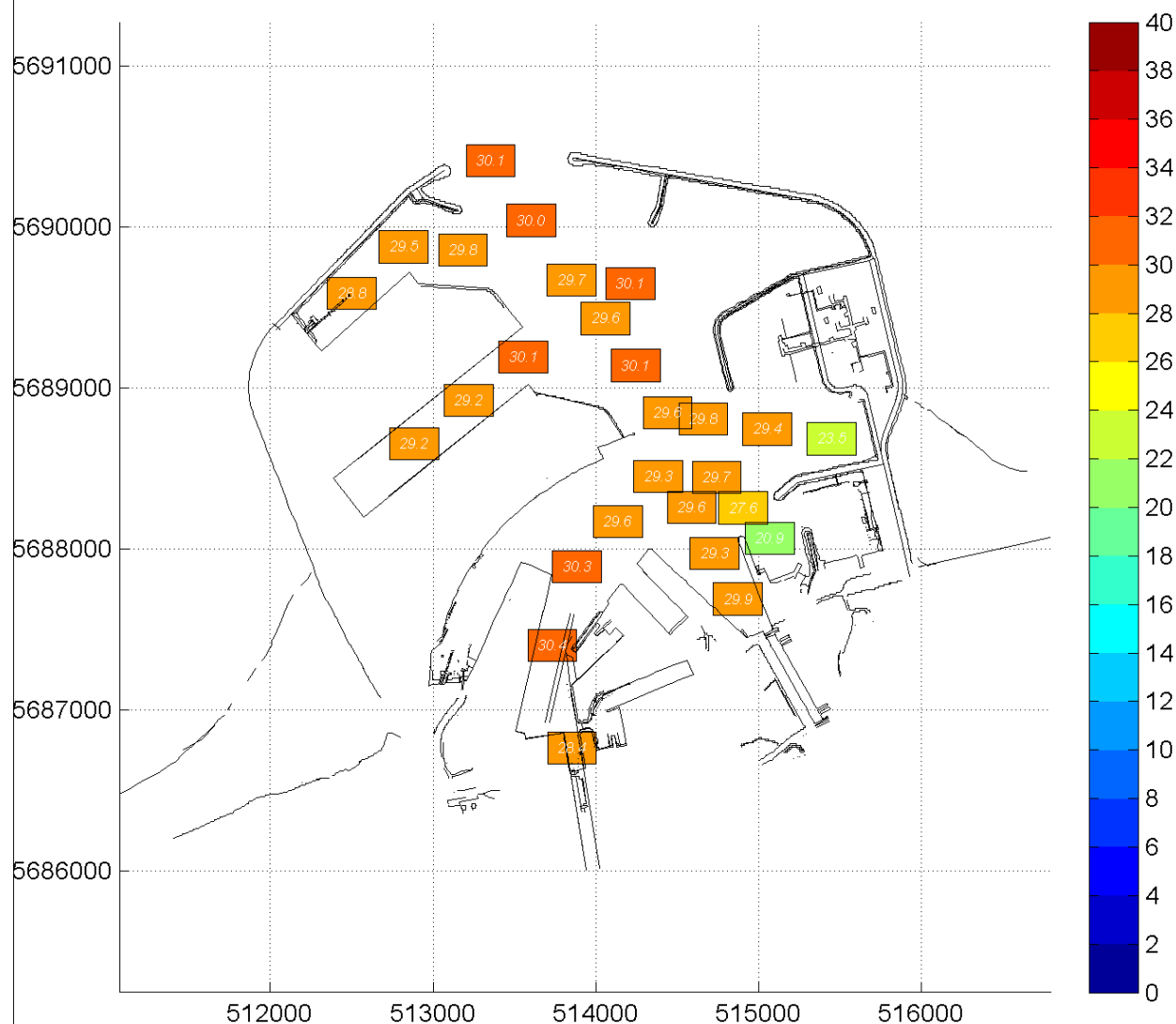
11292 - Zoutmetingen Zeebrugge

Location:

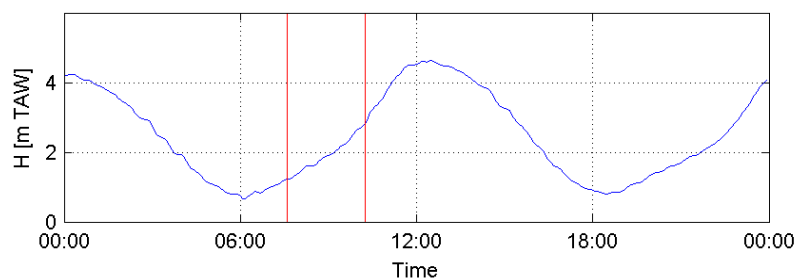
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 19-Mar-2008



HW/LW

12:10: h = 4.61m

00:40: h = NaNm

18:25: h = 0.81m

Date/time:

19-Mar-2008

07:35 - 10:15

Time after HW

-3:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

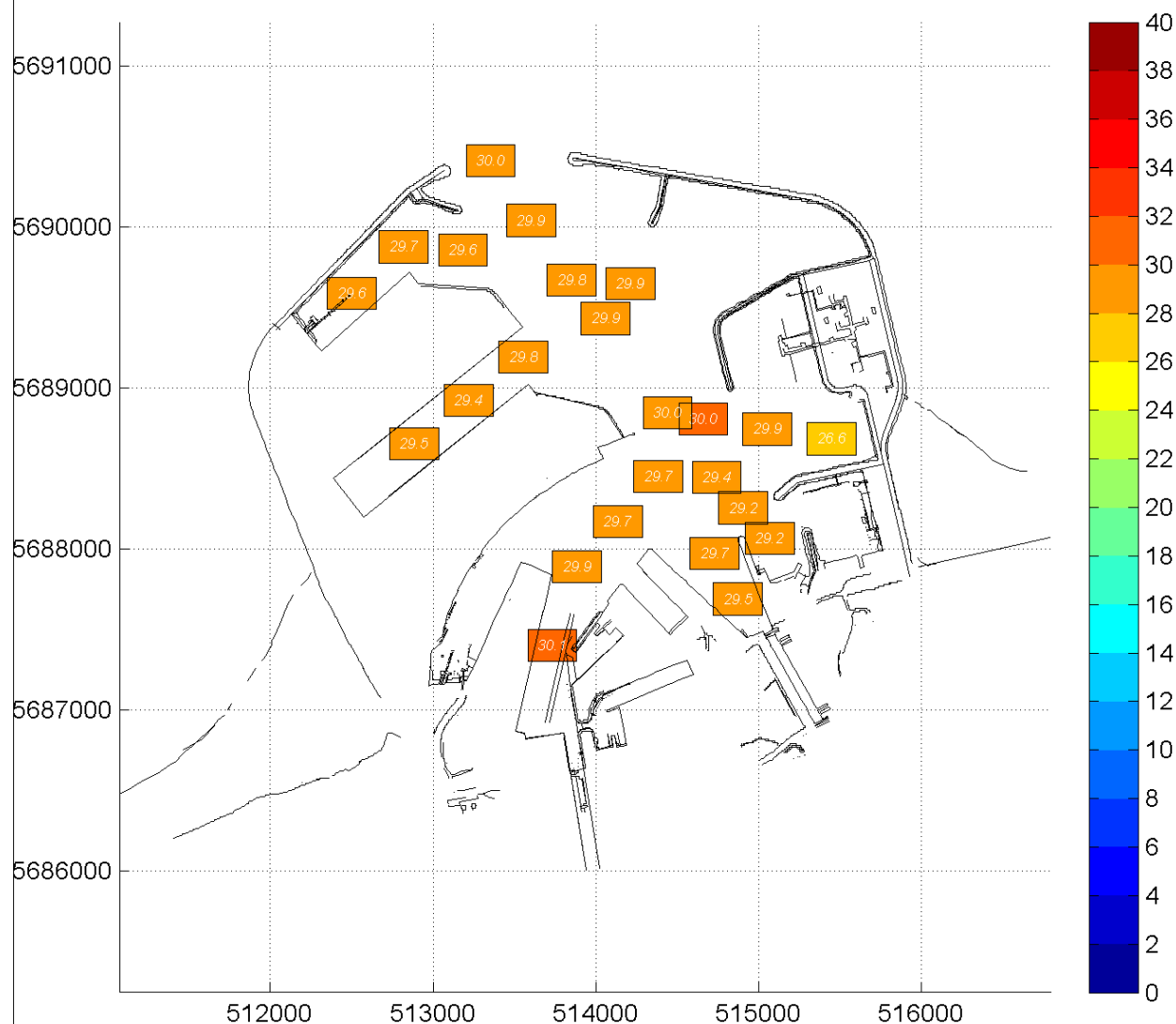
11292 - Zoutmetingen Zeebrugge

Location:

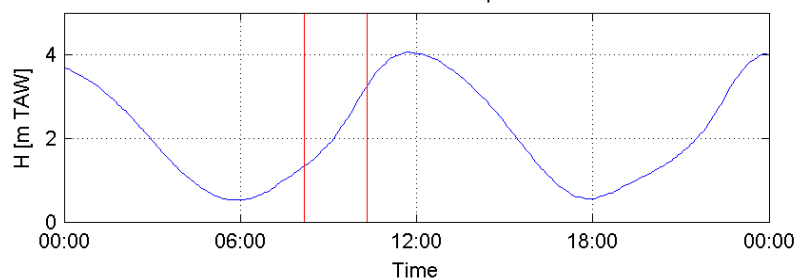
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 03-Apr-2008



HW/LW

11:40: h = 4.06m

23:50: h = 4.01m

17:50: h = 0.55m

Date/time:

03-Apr-2008

08:09 - 10:19

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

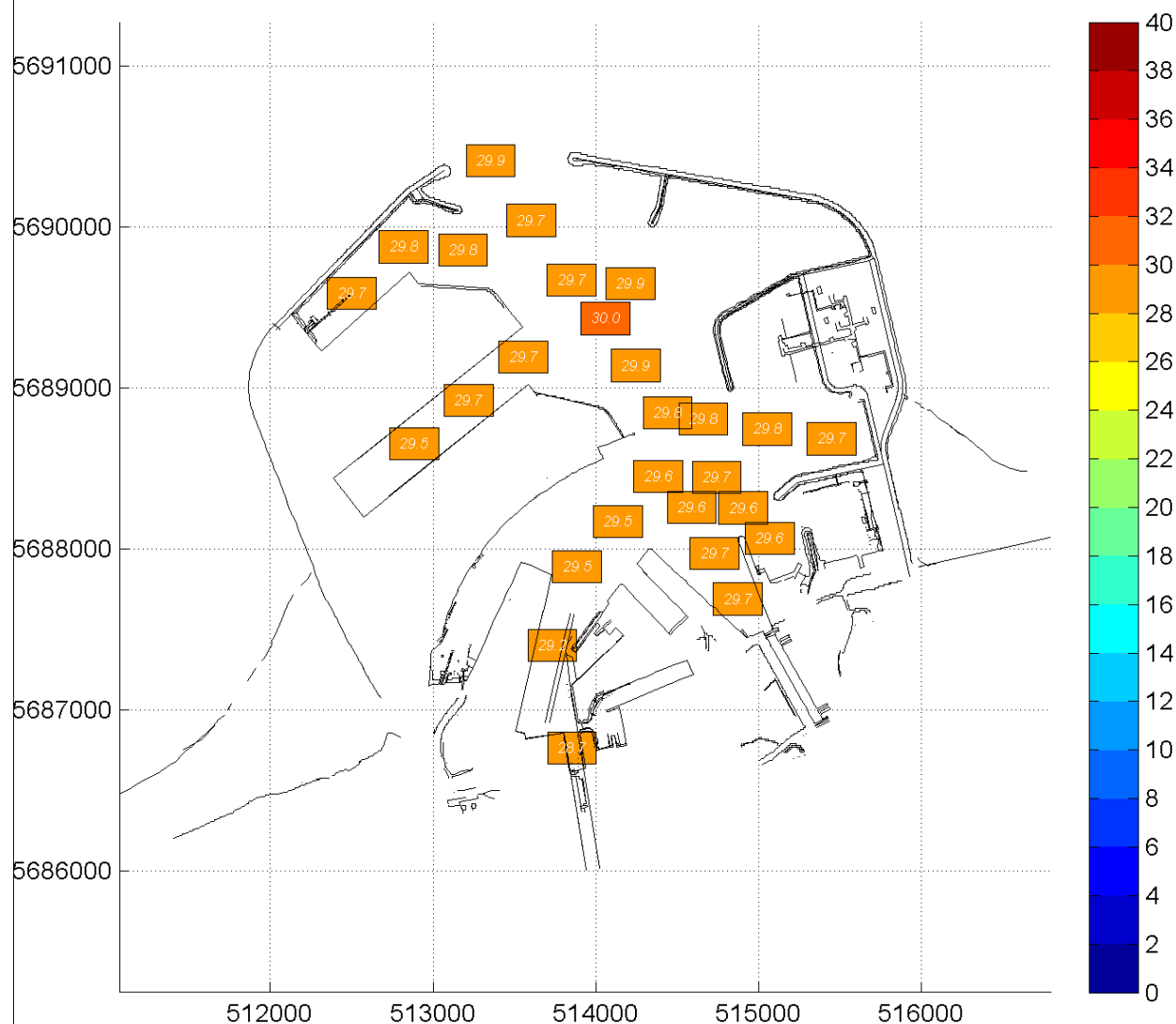
11292 - Zoutmetingen Zeebrugge

Location:

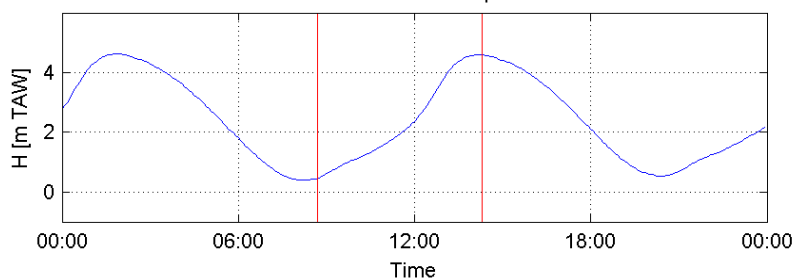
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 21-Apr-2008



HW/LW

01:50: h = 4.63m

14:15: h = 4.61m

08:05: h = 0.39m

Date/time:

21-Apr-2008

08:41 - 14:17

Time after HW

-2:45

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

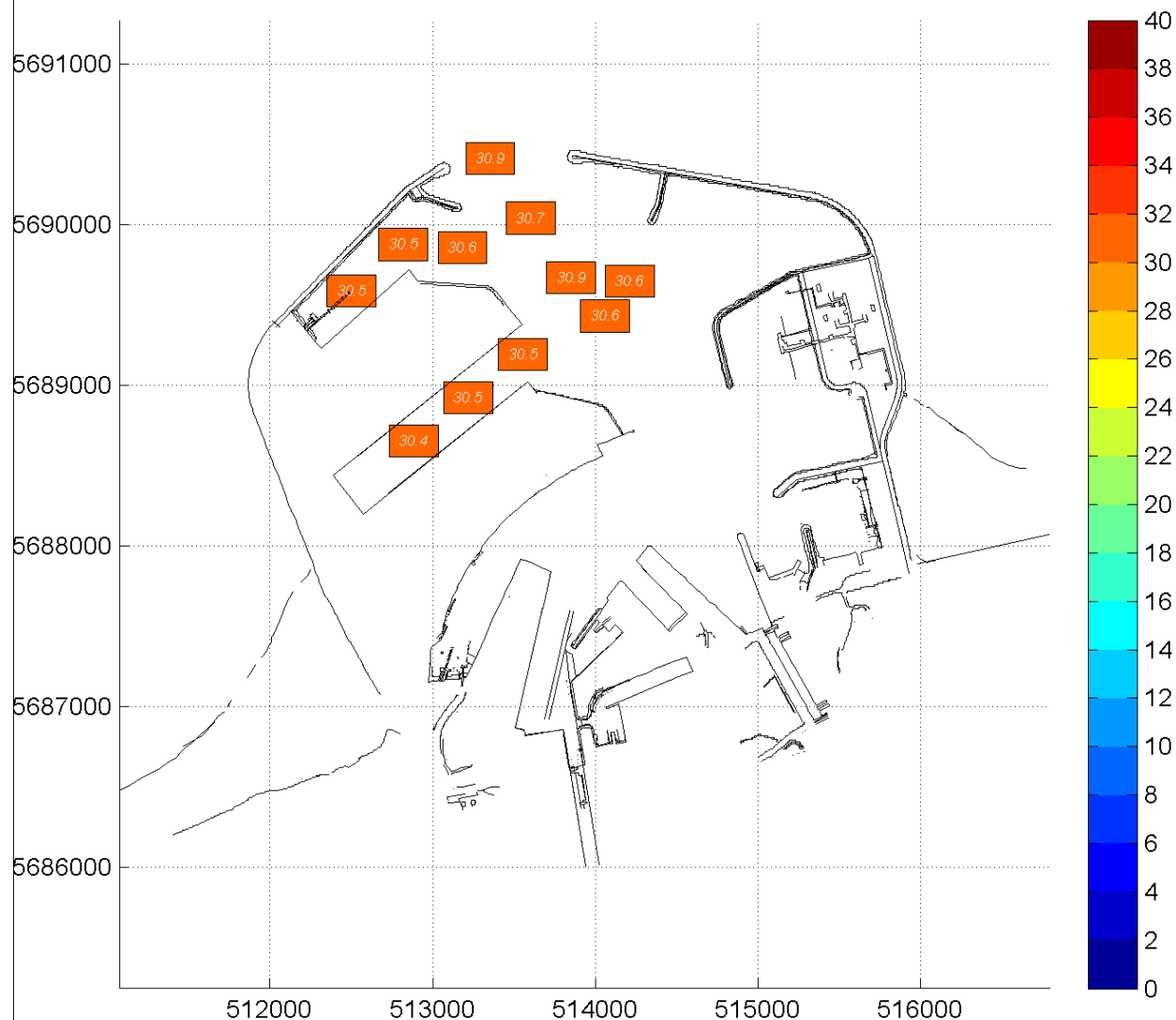
11292 - Zoutmetingen Zeebrugge

Location:

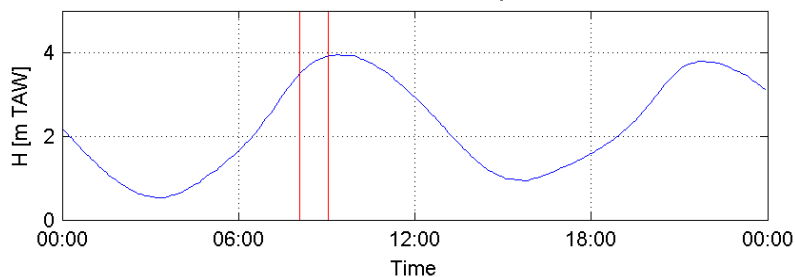
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 14-May-2008



HW/LW

09:20: h = 3.95m

21:40: h = 3.8m

15:45: h = 0.93m

Date/time:

14-May-2008

08:05 - 09:02

Time after HW

-0:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

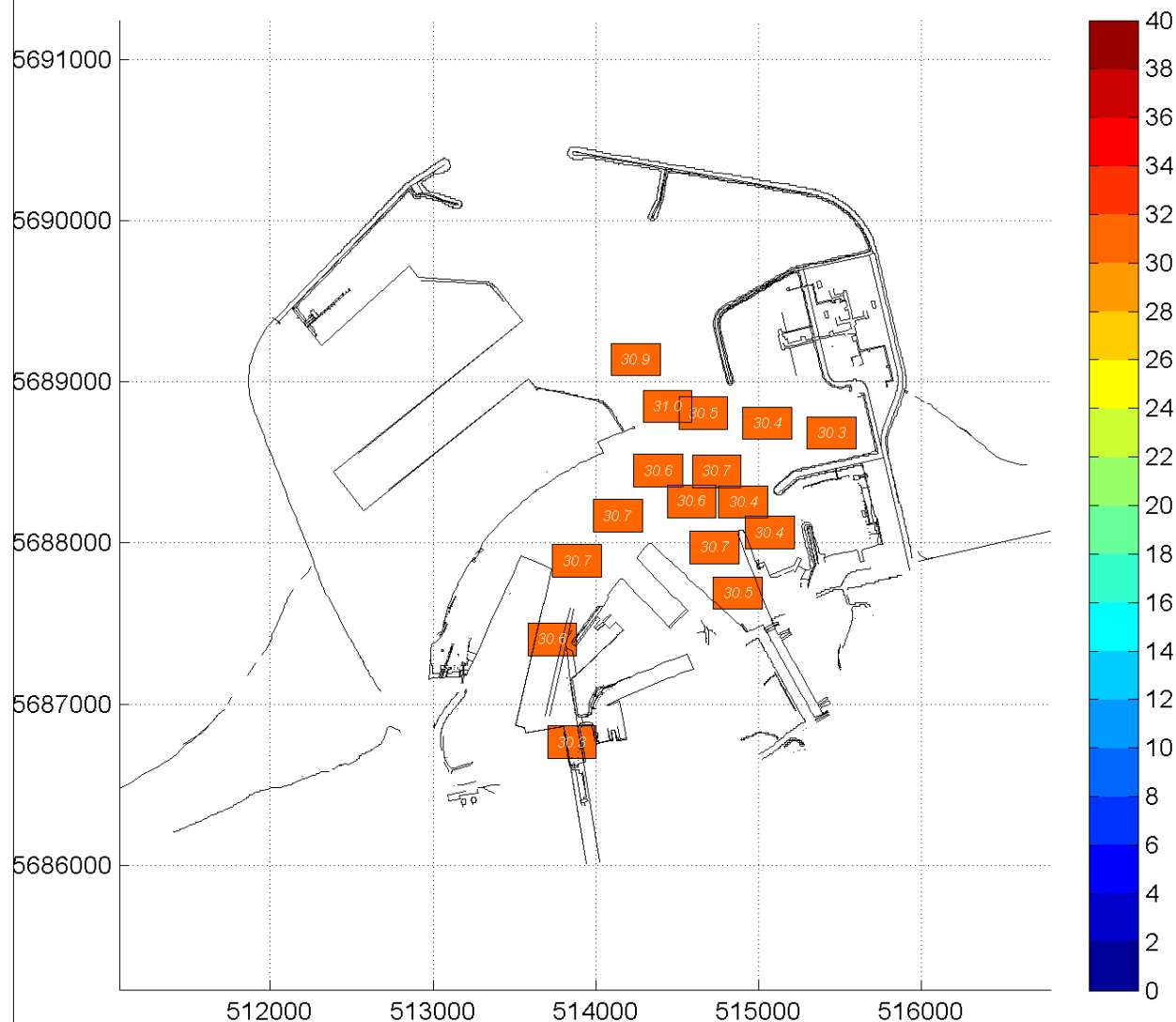
11292 - Zoutmetingen Zeebrugge

Location:

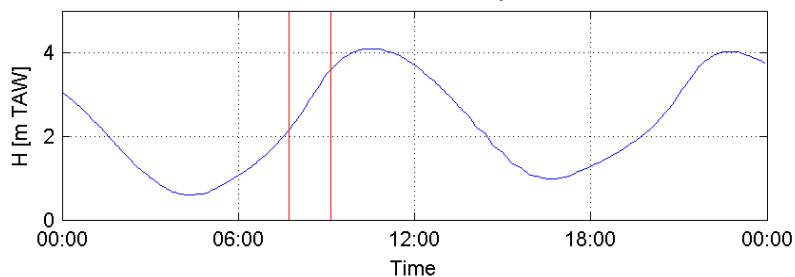
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 15-May-2008



HW/LW

10:20: h = 4.09m

22:40: h = 4.03m

16:35: h = 0.97m

Date/time:

15-May-2008

07:43 - 09:08

Time after HW

-1:53

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

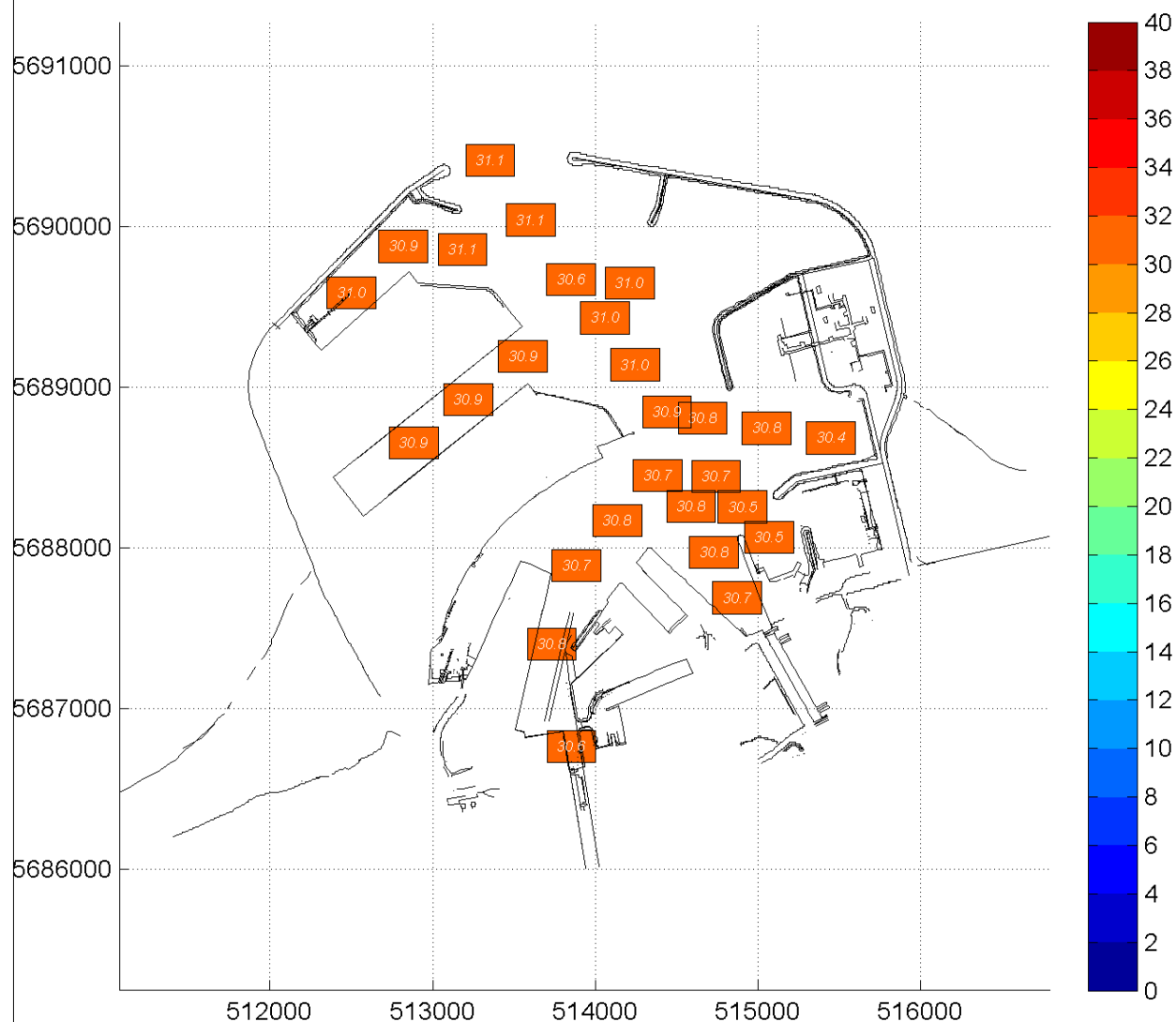
11292 - Zoutmetingen Zeebrugge

Location:

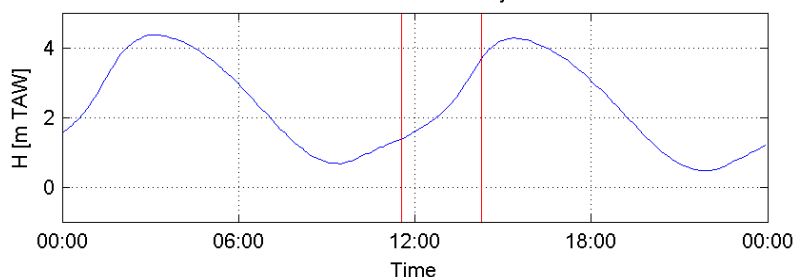
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 23-May-2008



HW/LW

03:00: h = 4.37m

15:20: h = 4.29m

09:25: h = 0.66m

Date/time:

23-May-2008

11:33 - 14:16

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

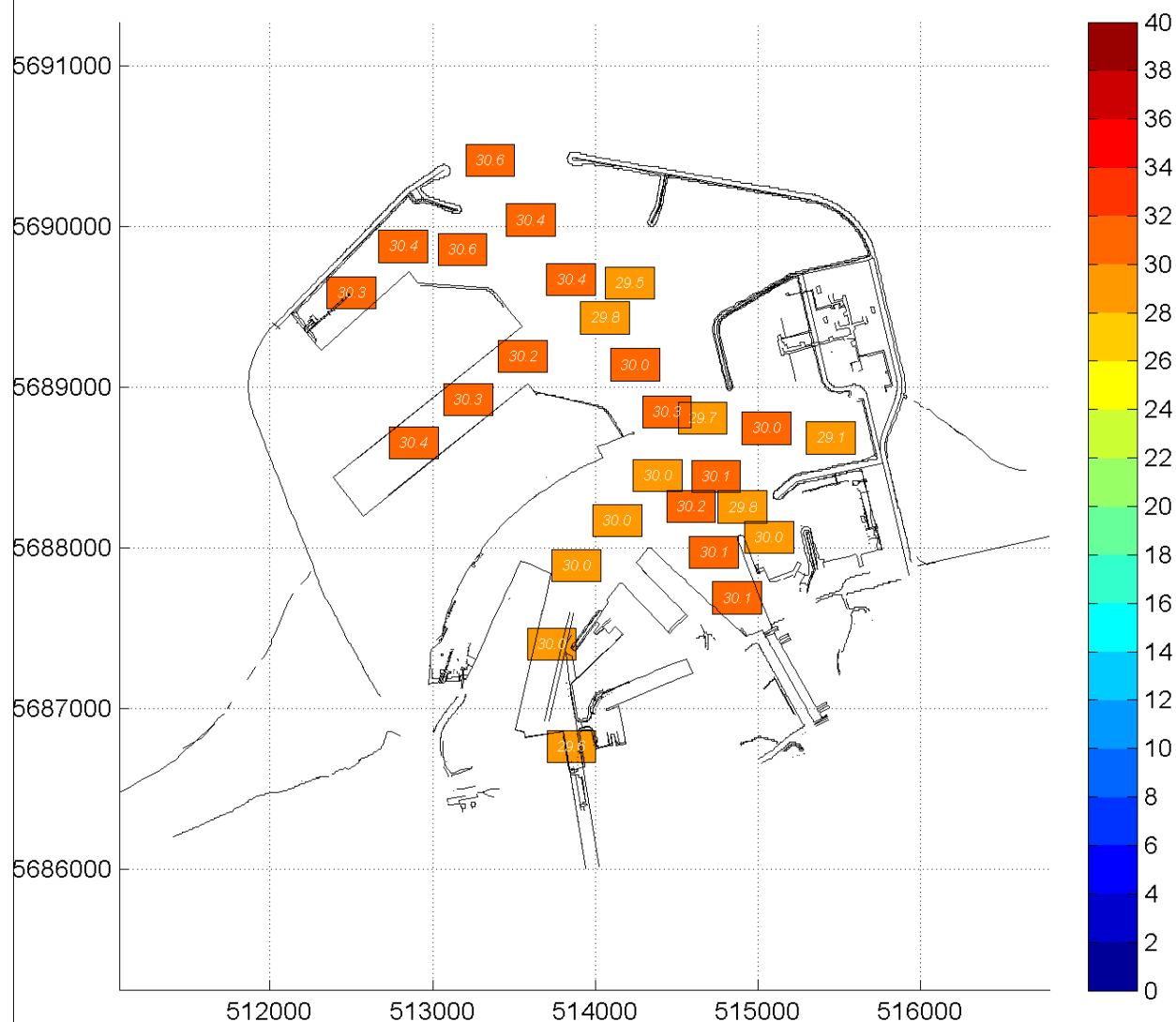
11292 - Zoutmetingen Zeebrugge

Location:

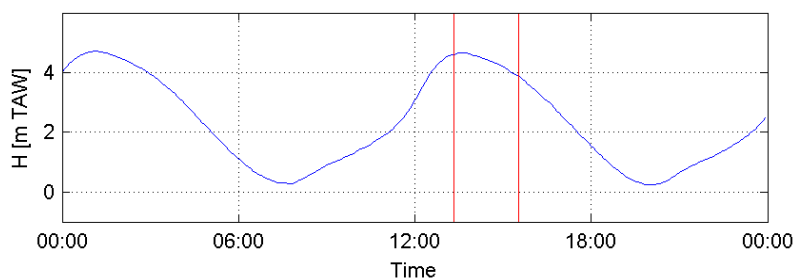
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 04-Jun-2008



HW/LW

01:05: h = 4.72m

13:40: h = 4.67m

07:40: h = 0.29m

Date/time:

04-Jun-2008

13:19 - 15:32

Time after HW

0:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

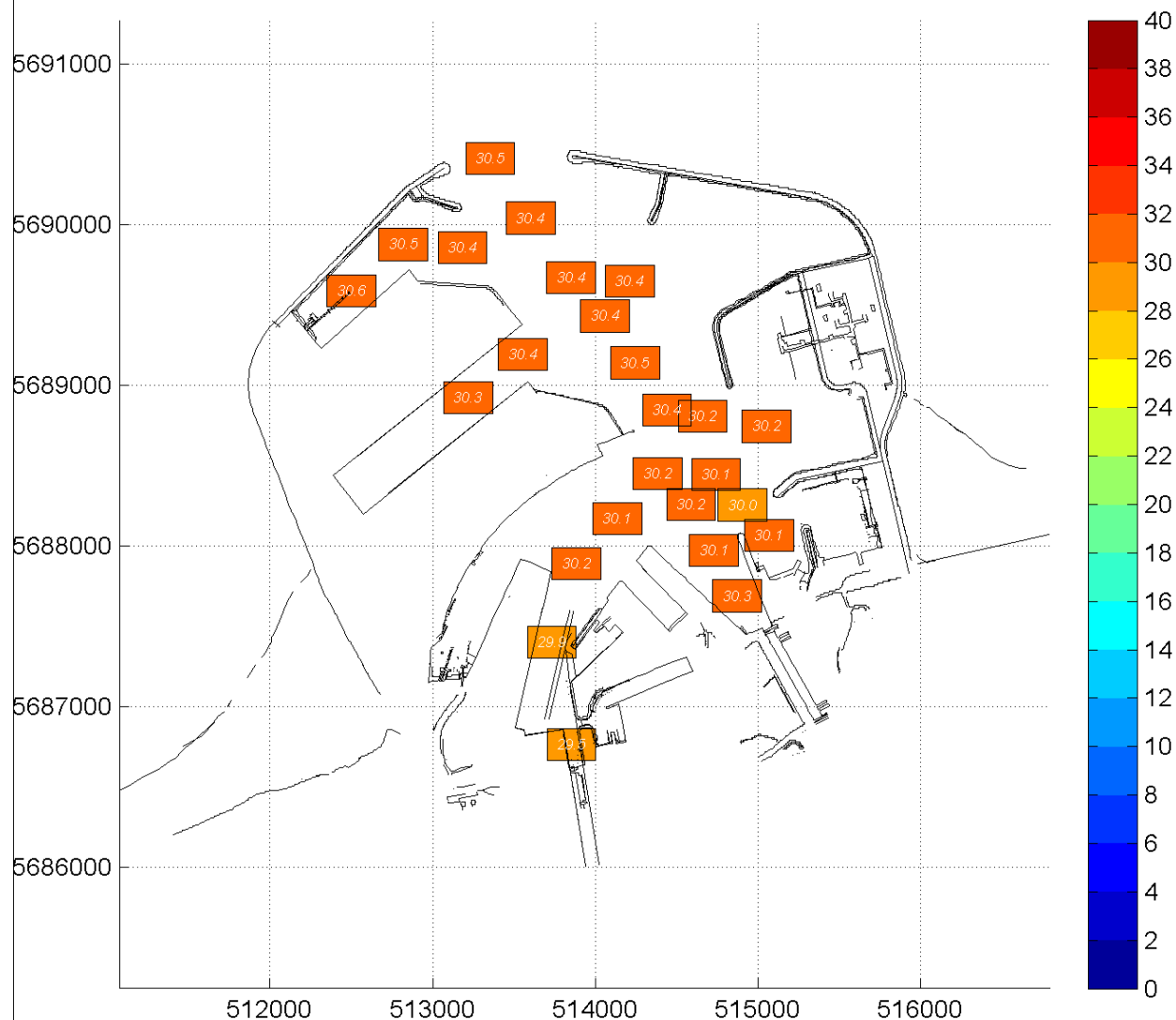
11292 - Zoutmetingen Zeebrugge

Location:

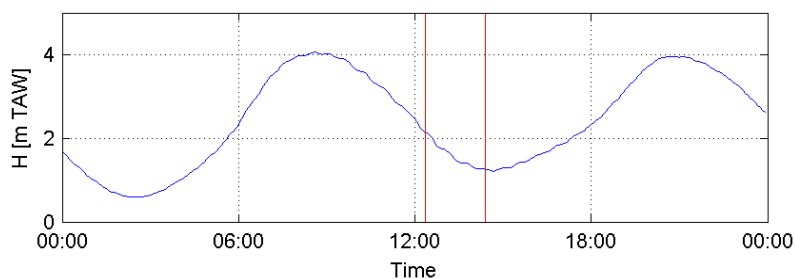
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 12-Jun-2008



HW/LW

08:35: h = 4.06m

20:40: h = 3.96m

14:05: h = 1.27m

Date/time:

12-Jun-2008

12:21 - 14:24

Time after HW

4:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

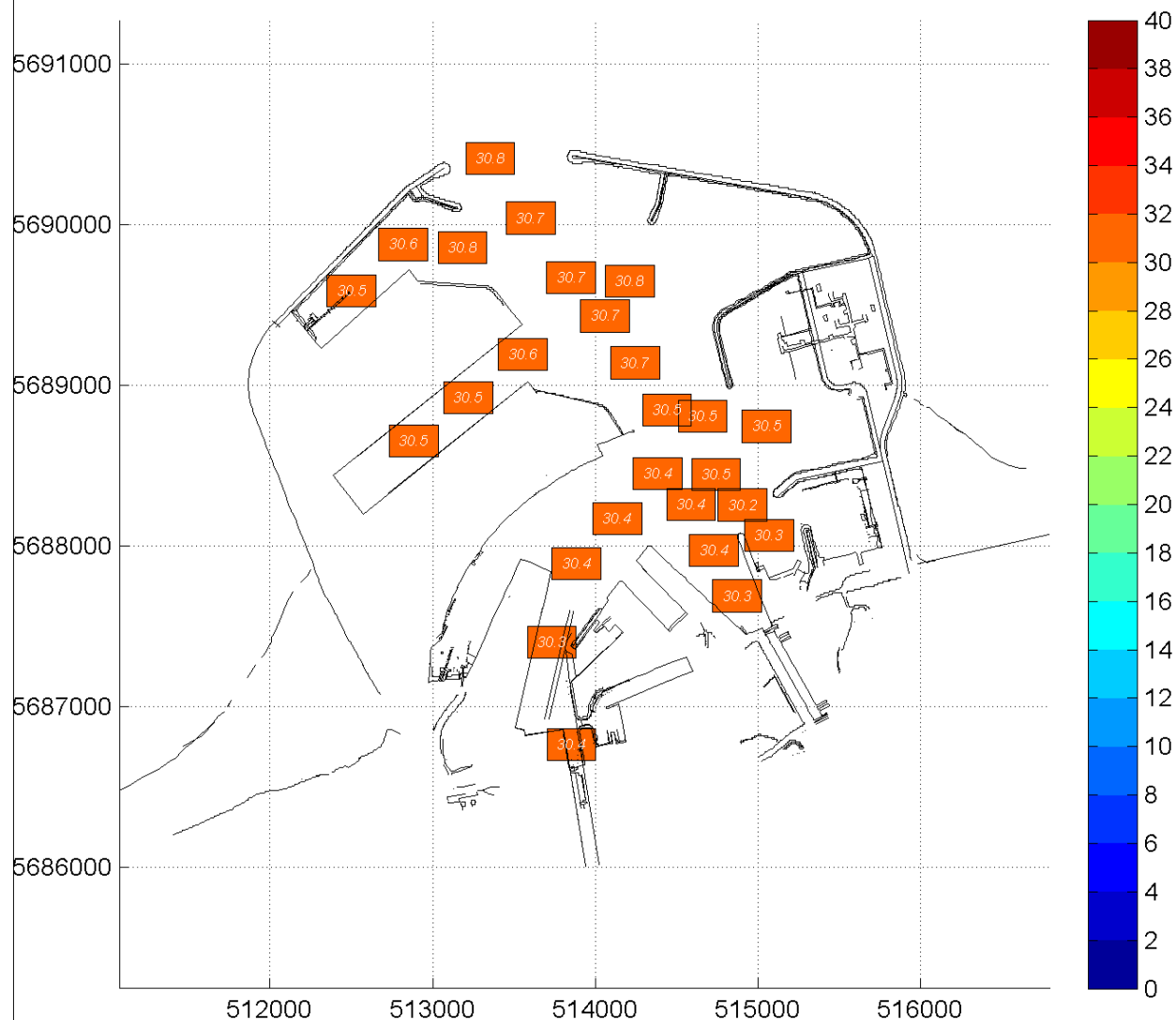
11292 - Zoutmetingen Zeebrugge

Location:

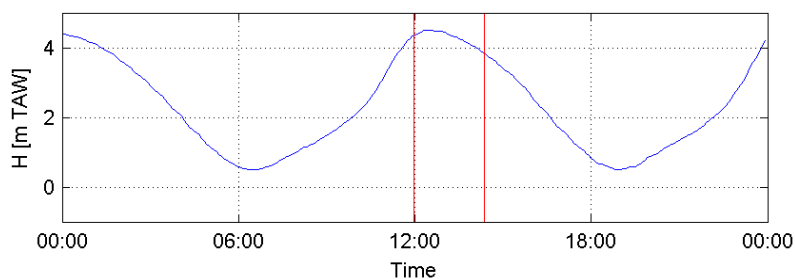
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 02-Jul-2008



HW/LW

12:25: h = 4.5m  
01:00: h = NaNm  
18:55: h = 0.49m

Date/time:

02-Jul-2008

11:57 - 14:21

Time after HW

0:44

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

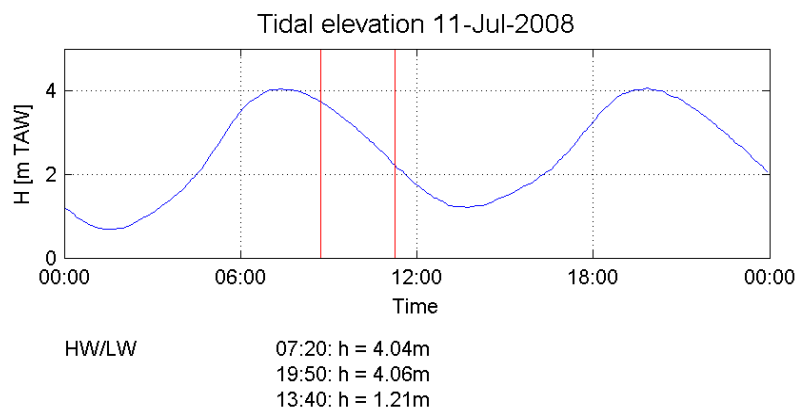
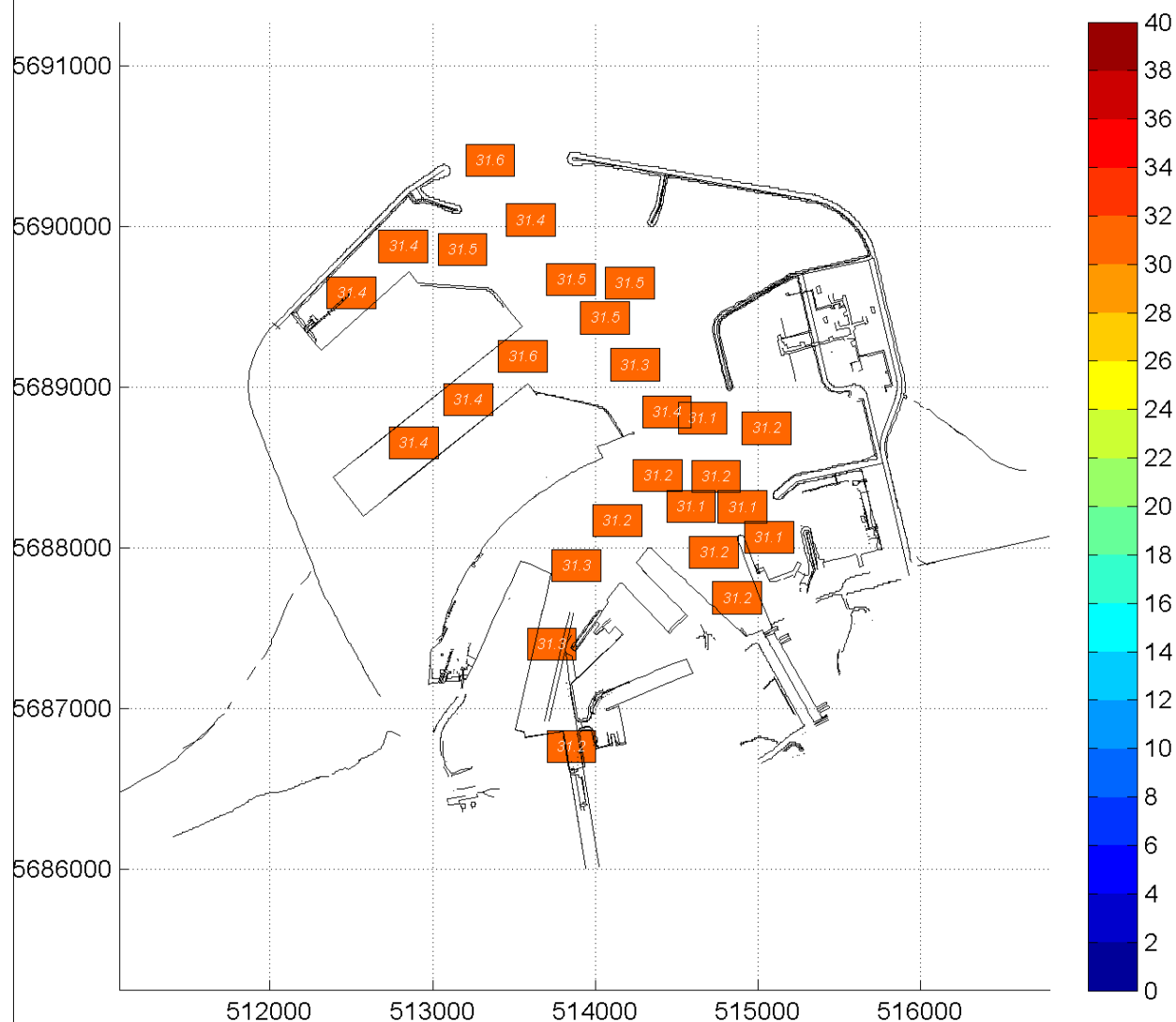
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

11-Jul-2008

08:44 - 11:14

Time after HW

2:39

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

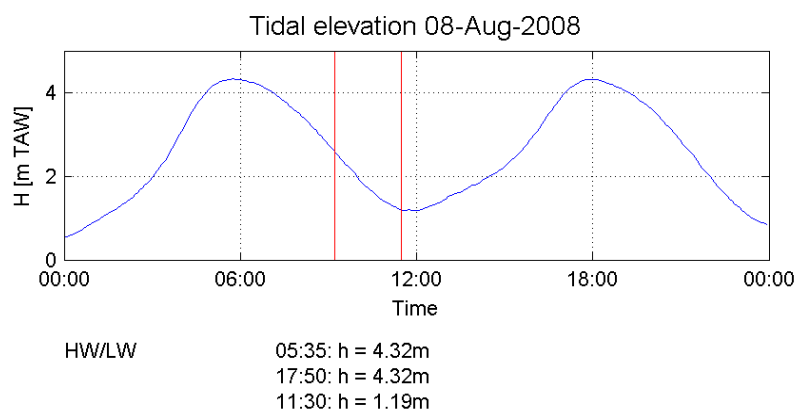
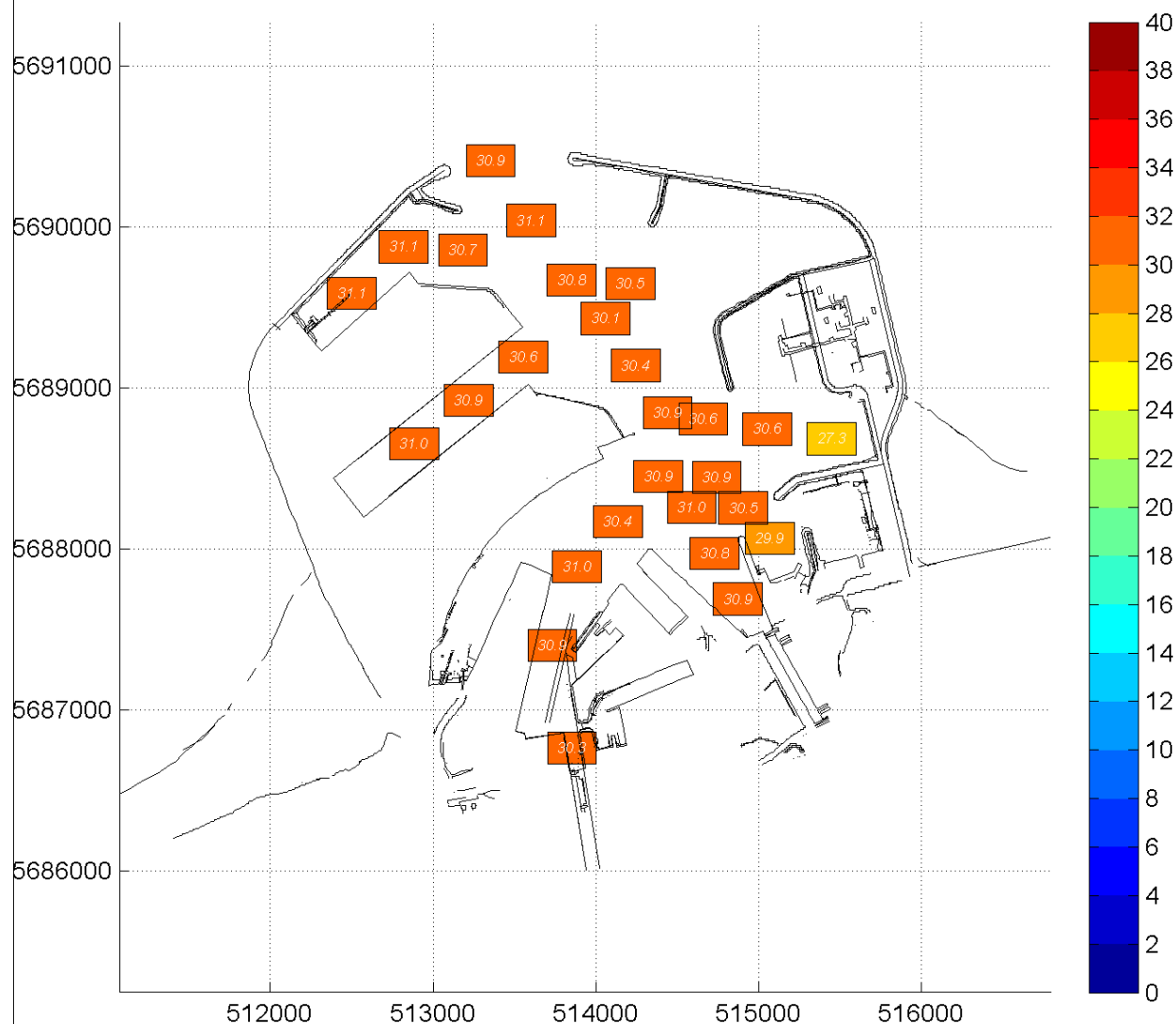
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

50 % of the water depth



Date/time:

08-Aug-2008

09:12 - 11:28

Time after HW

4:45

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

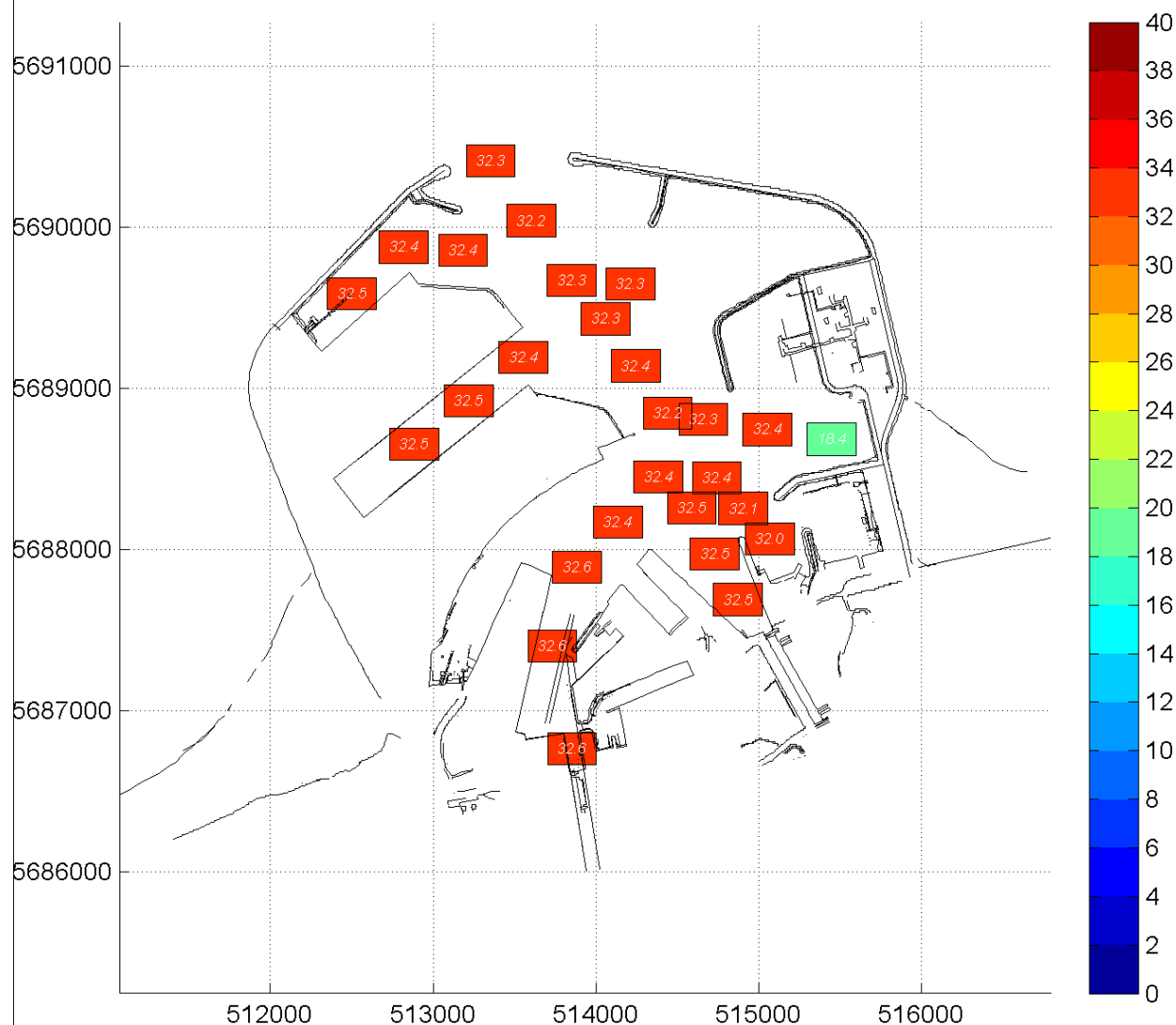
11292 - Zoutmetingen Zeebrugge

Location:

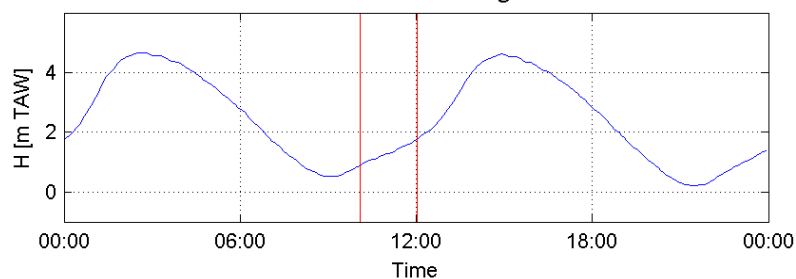
Port of Zeebrugge

Depth:

50 % of the water depth



Tidal elevation 19-Aug-2008



HW/LW

02:40: h = 4.67m

14:55: h = 4.63m

08:55: h = 0.53m

Date/time:

19-Aug-2008

10:05 - 12:02

Time after HW

-3:51

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





## **Annex E   Horizontal Salinity distribution in the port of Zeebrugge near the bottom**





# Horizontal salinity distribution in the port of Zeebrugge

Project:

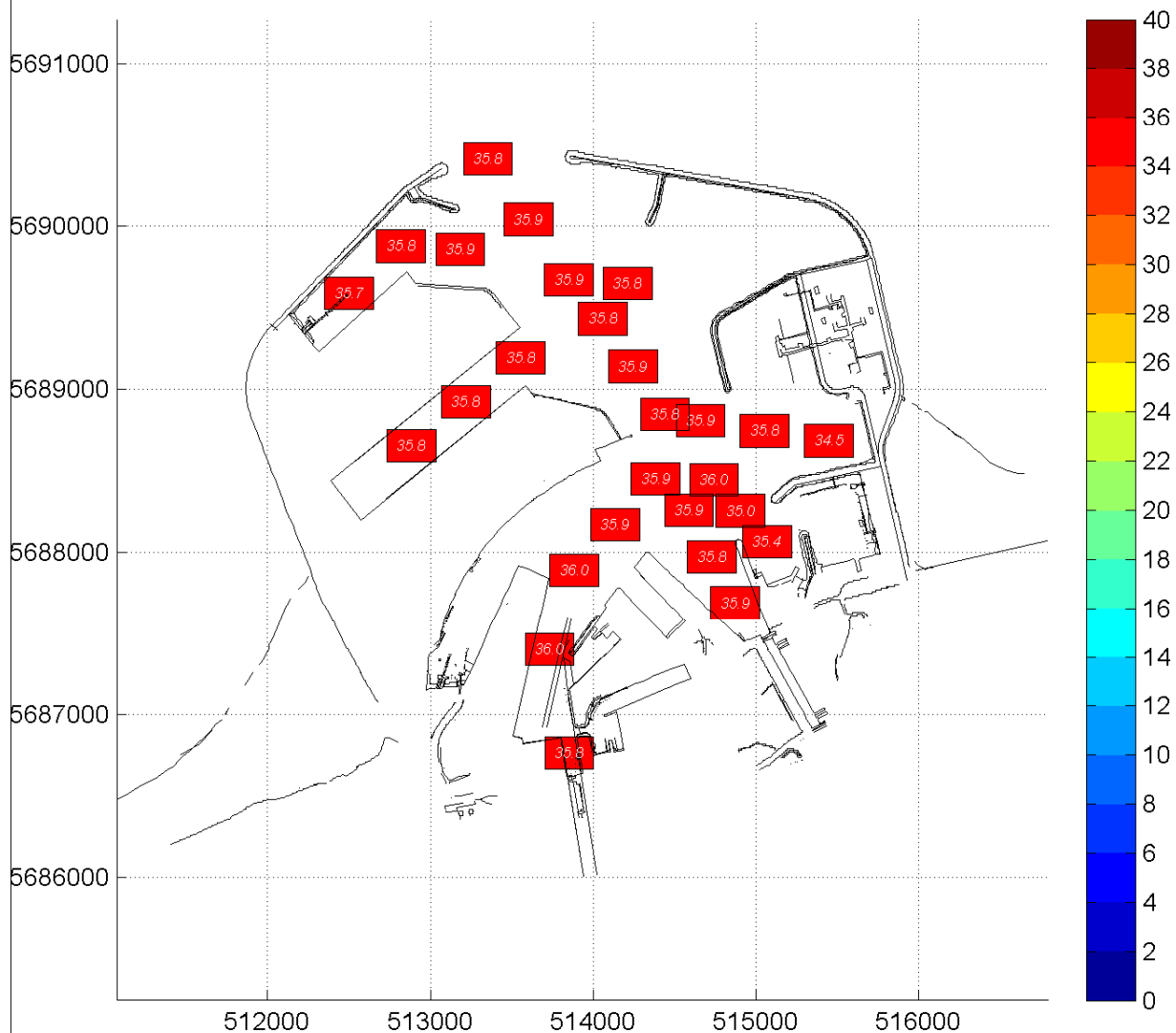
11292 - Zoutmetingen Zeebrugge

Location:

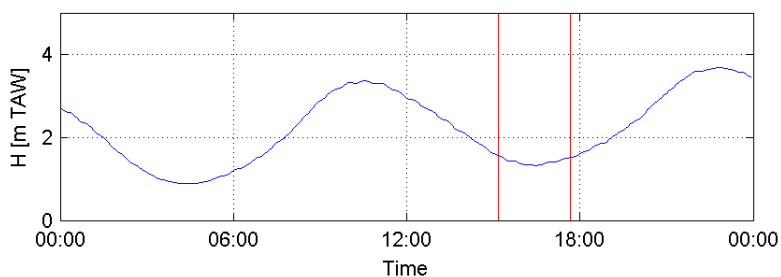
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 15-Jan-2007



HW/LW

10:00: h = 3.33m

22:50: h = 3.69m

16:25: h = 1.32m

Date/time:

15-Jan-2007

15:09 - 17:40

Time after HW

-6:24

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

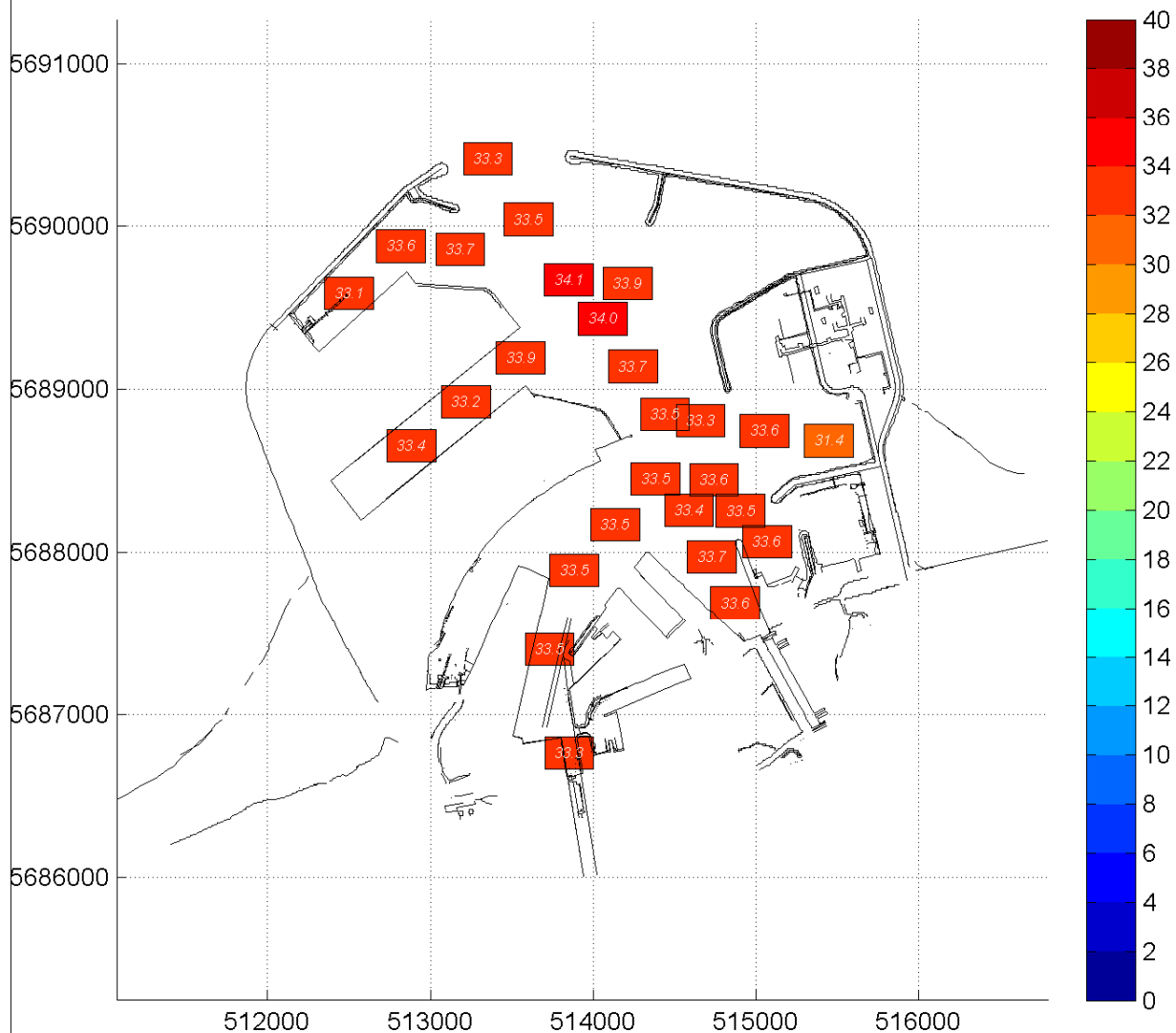
11292 - Zoutmetingen Zeebrugge

Location:

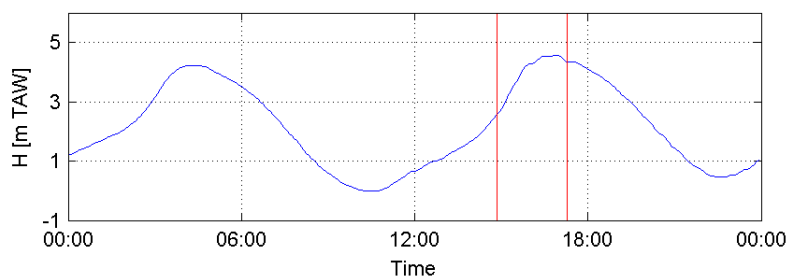
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 23-Jan-2007



HW/LW

04:10: h = 4.22m  
16:30: h = 4.53m  
10:20: h = -0.01m

Date/time:

23-Jan-2007

14:51 - 17:16

Time after HW

-0:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

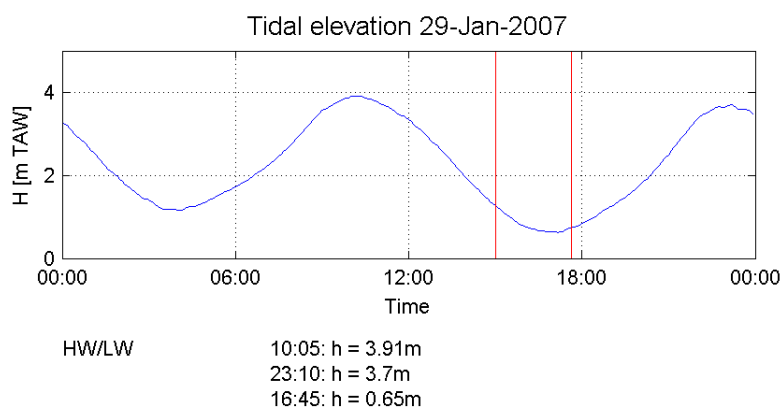
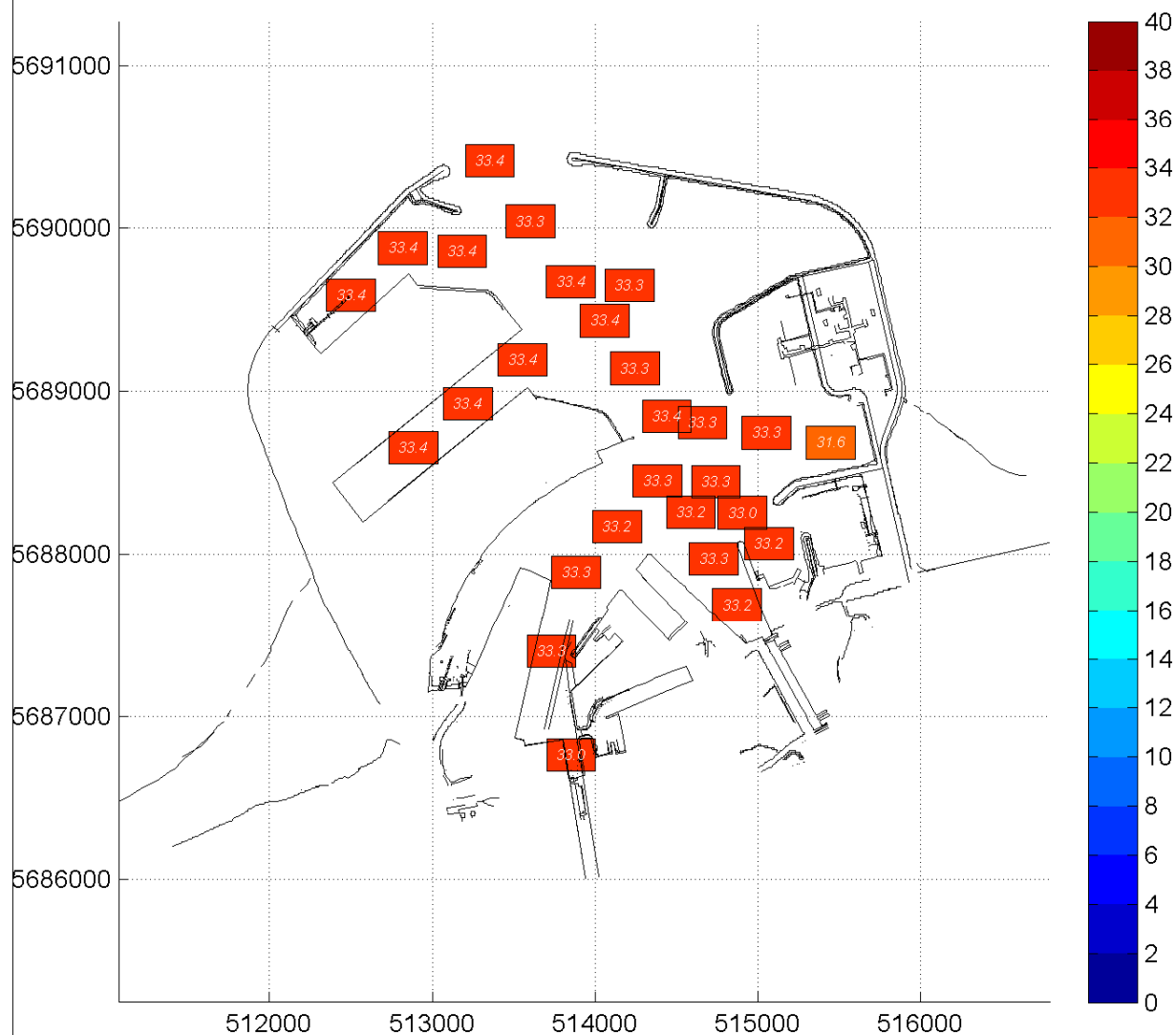
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

29-Jan-2007

15:00 - 17:37

Time after HW

6:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

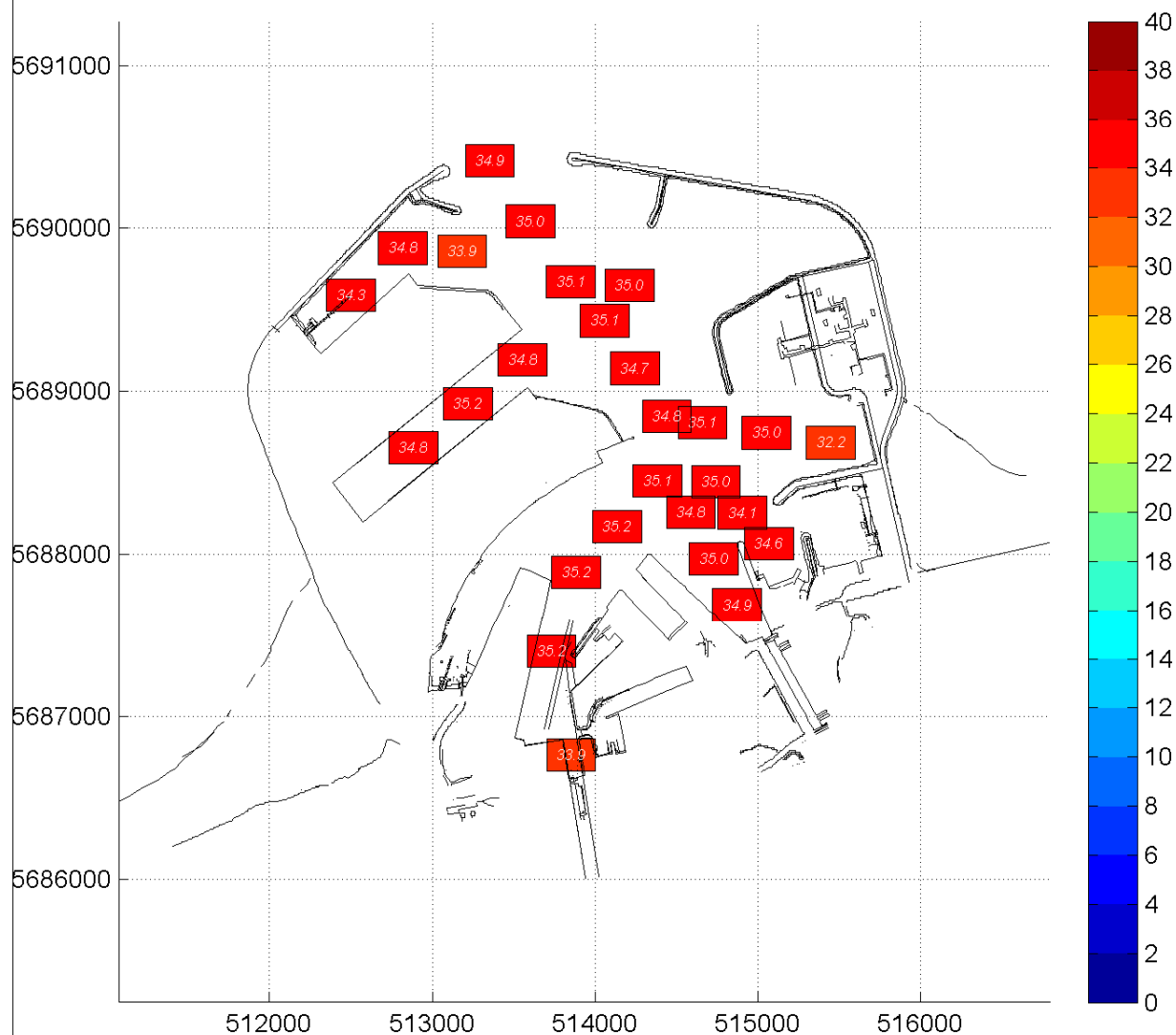
11292 - Zoutmetingen Zeebrugge

Location:

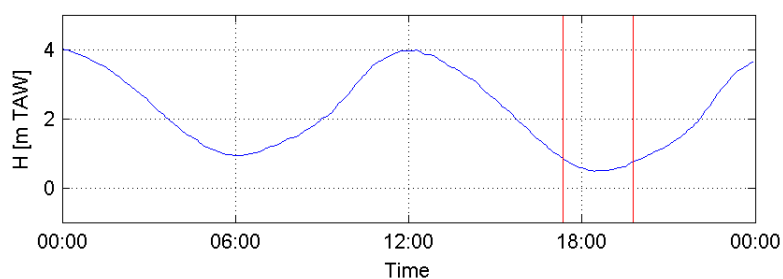
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 15-Feb-2007



HW/LW

11:45: h = 3.97m

00:25: h = NaNm

18:25: h = 0.48m

Date/time:

15-Feb-2007

17:19 - 19:45

Time after HW

-5:52

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

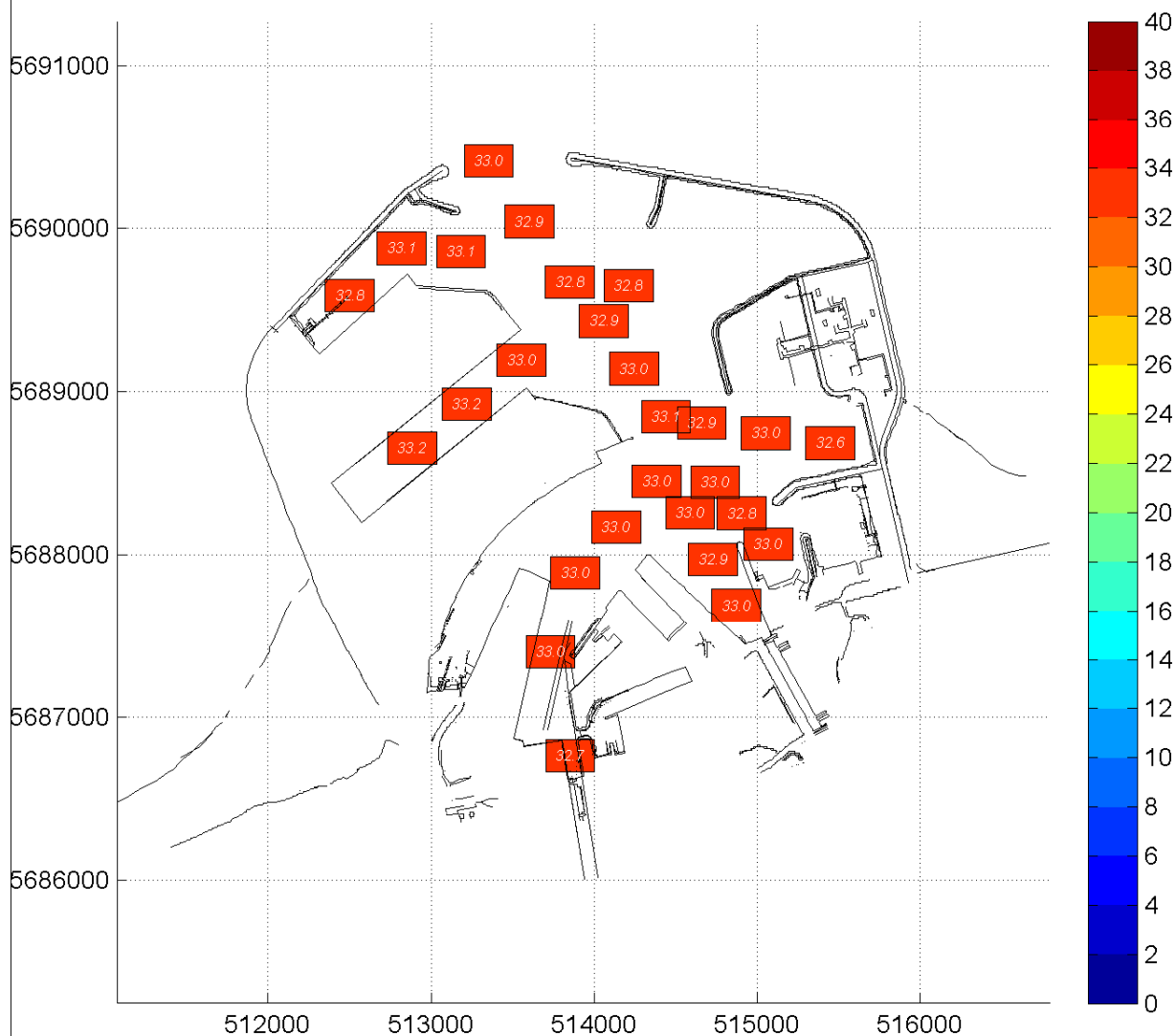
11292 - Zoutmetingen Zeebrugge

Location:

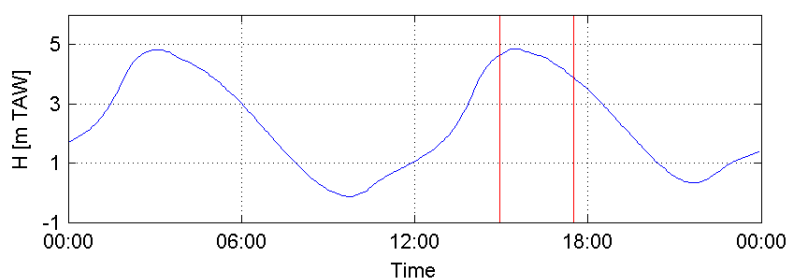
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 20-Feb-2007



HW/LW

03:00: h = 4.82m  
15:25: h = 4.86m  
09:40: h = -0.12m

Date/time:

20-Feb-2007

14:56 - 17:29

Time after HW

0:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

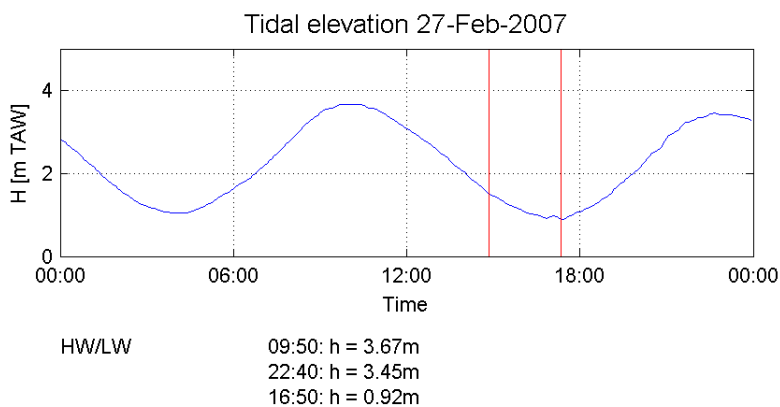
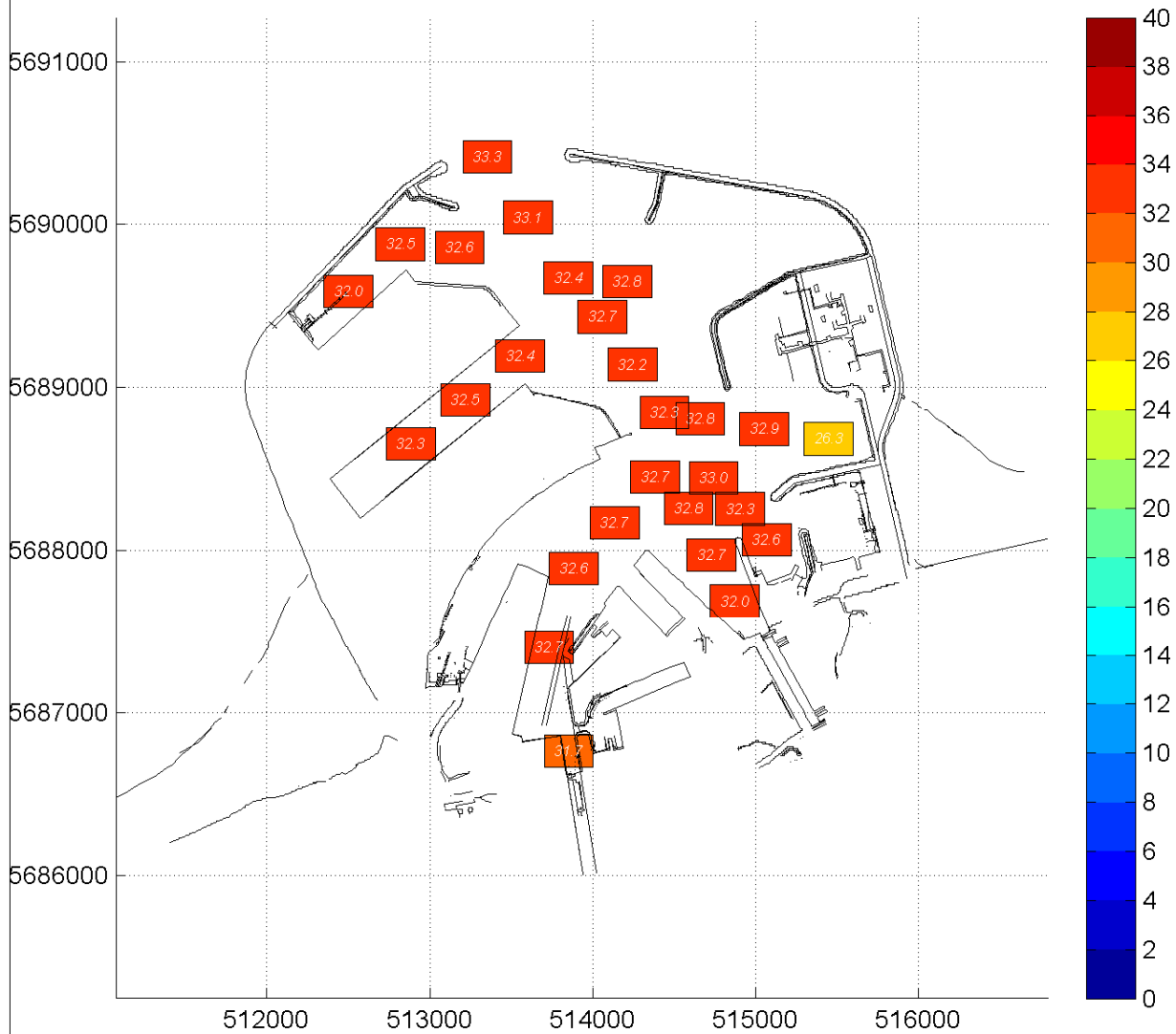
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

27-Feb-2007

14:50 - 17:20

Time after HW

6:15

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

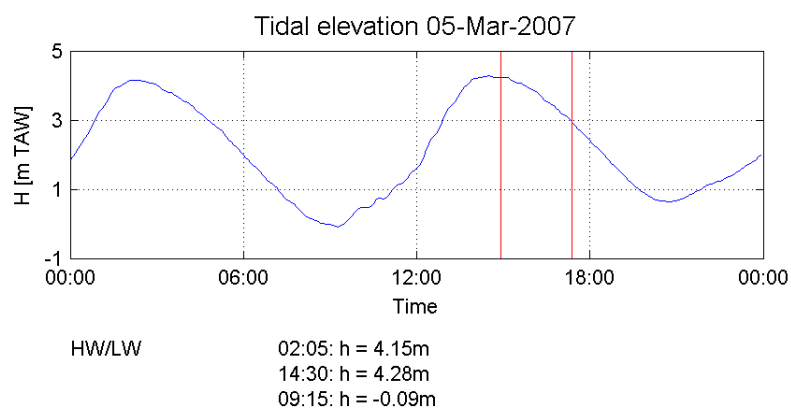
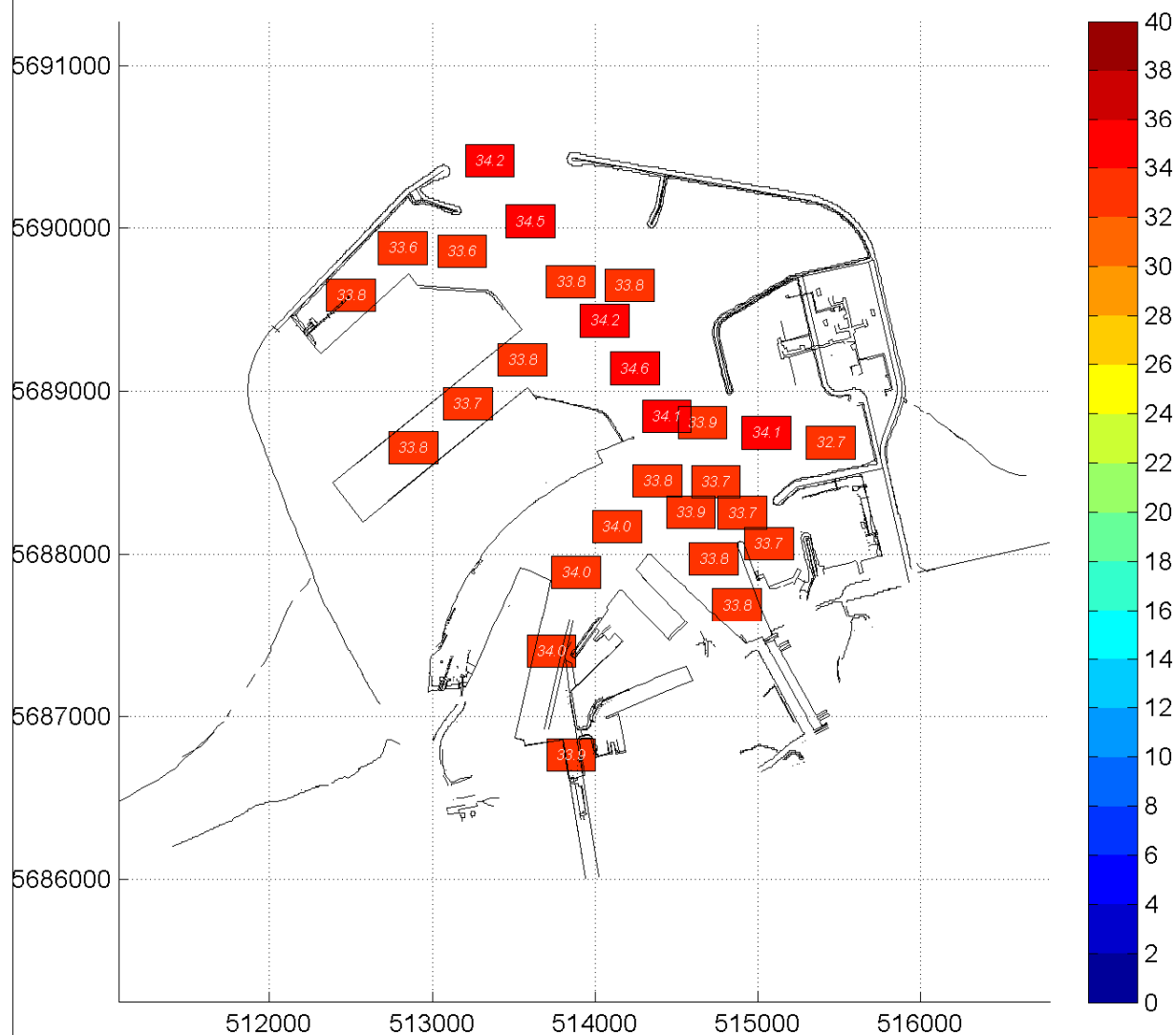
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

05-Mar-2007

14:54 - 17:22

Time after HW

1:38

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

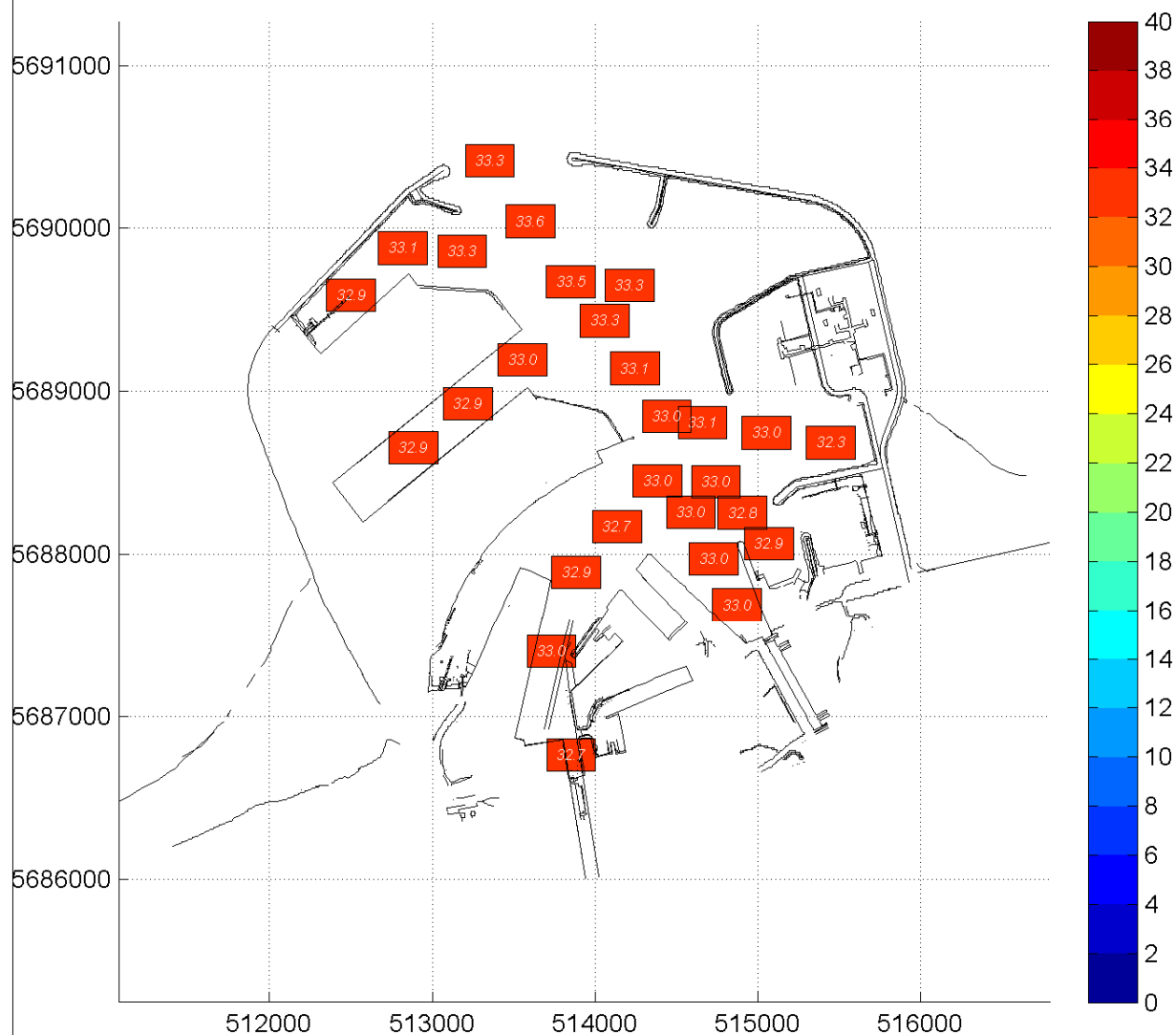
11292 - Zoutmetingen Zeebrugge

Location:

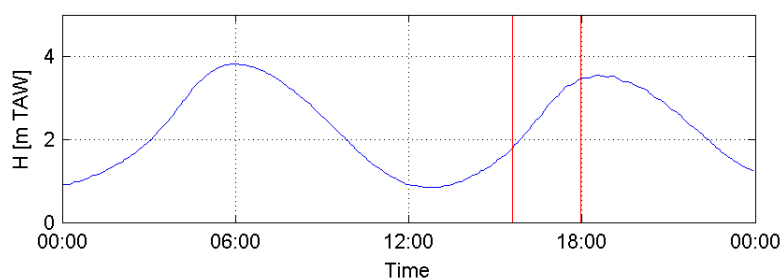
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 12-Mar-2007



HW/LW

05:55: h = 3.82m

18:30: h = 3.54m

12:35: h = 0.84m

Date/time:

12-Mar-2007

15:35 - 17:57

Time after HW

-1:43

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

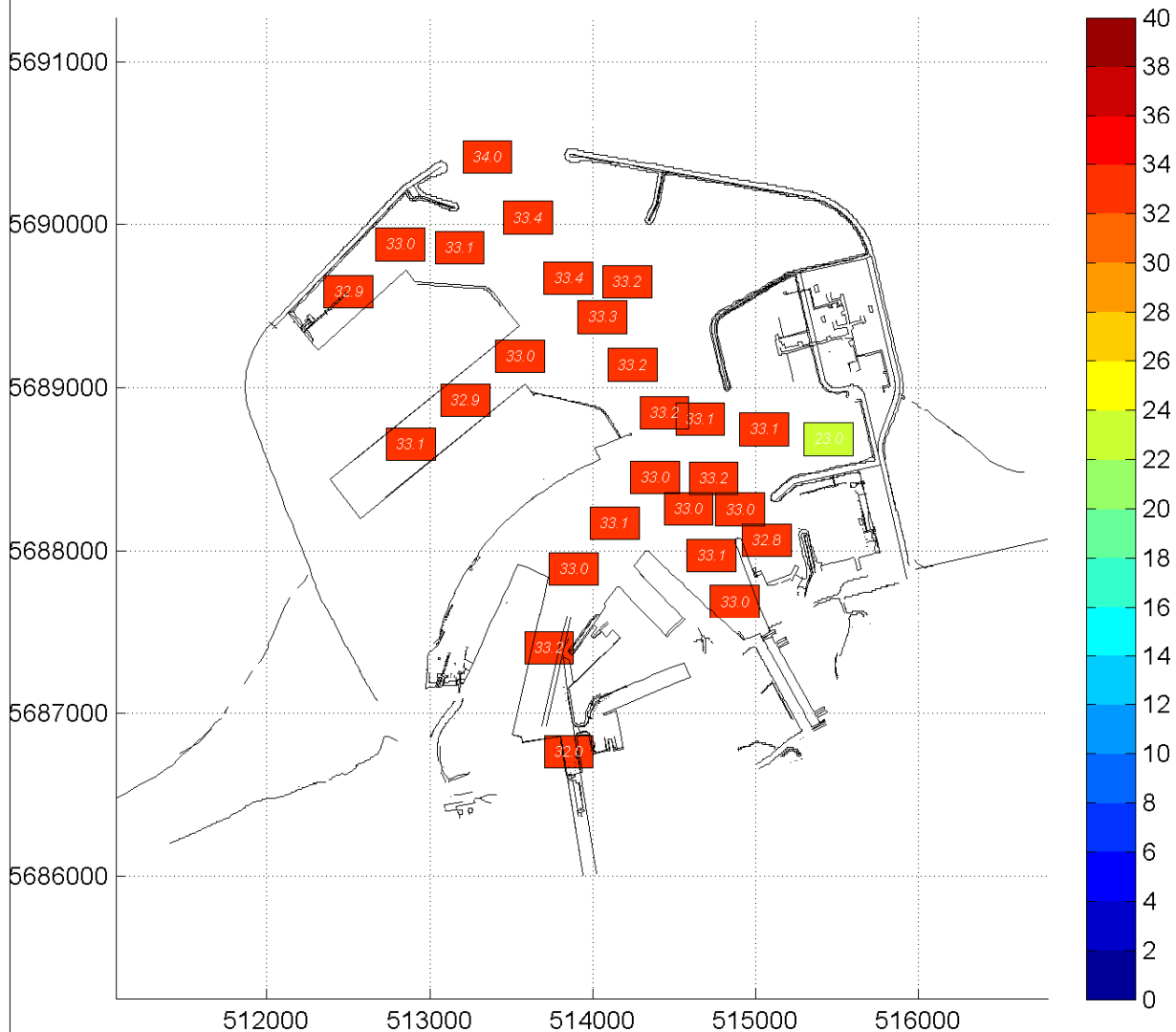
11292 - Zoutmetingen Zeebrugge

Location:

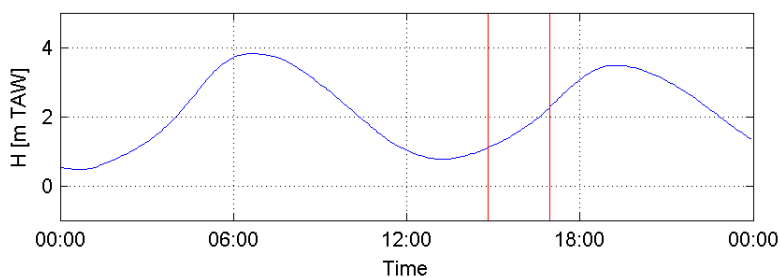
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 26-Mar-2007



Date/time:

26-Mar-2007

14:48 - 16:57

Time after HW

-3:06

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

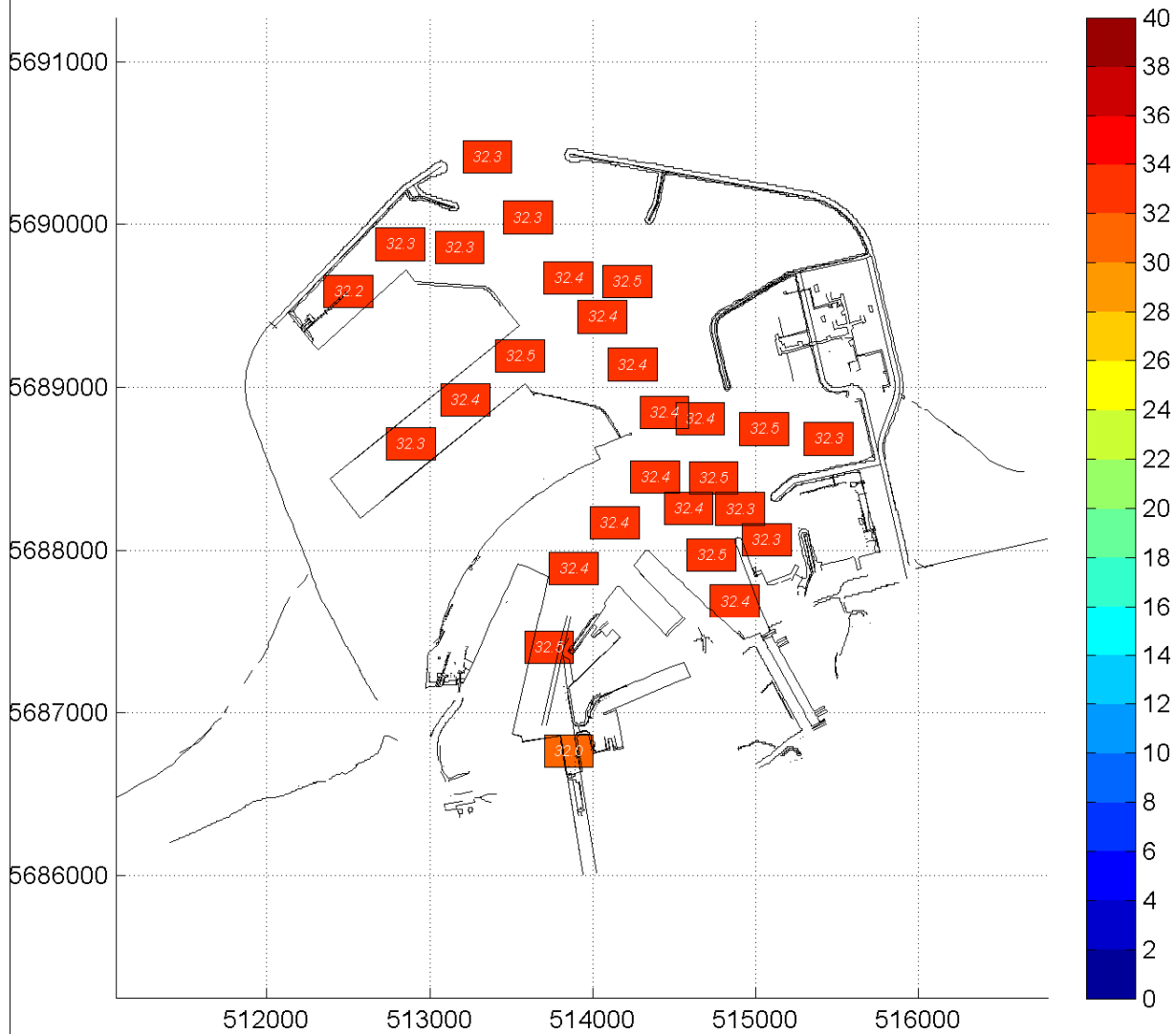
11292 - Zoutmetingen Zeebrugge

Location:

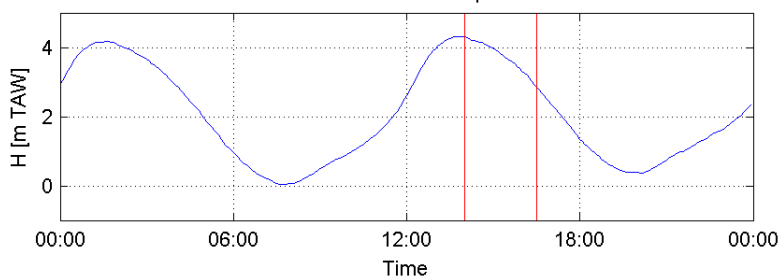
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 02-Apr-2007



HW/LW

01:35: h = 4.17m

13:50: h = 4.31m

07:40: h = 0.04m

Date/time:

02-Apr-2007

14:00 - 16:29

Time after HW

1:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

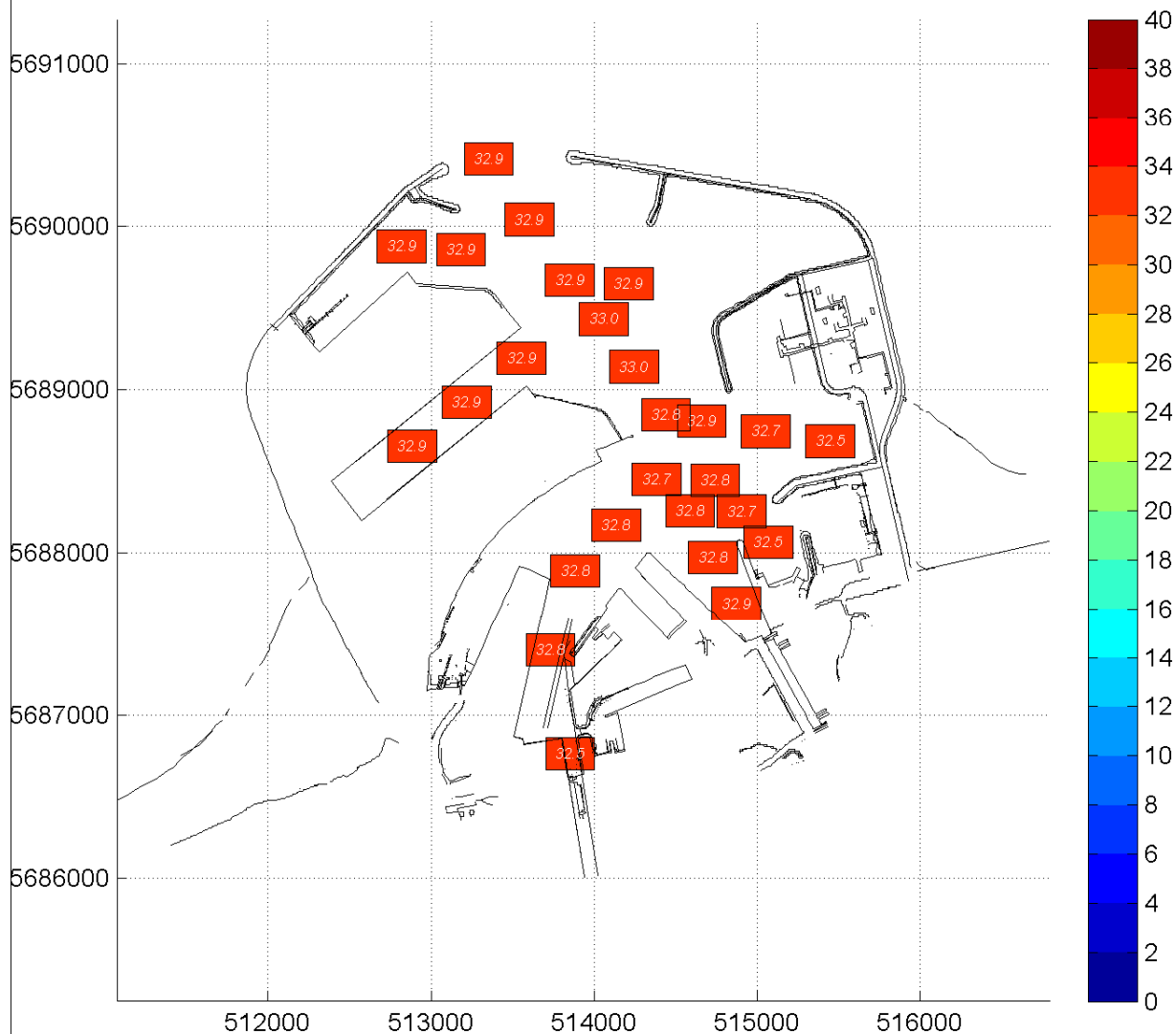
11292 - Zoutmetingen Zeebrugge

Location:

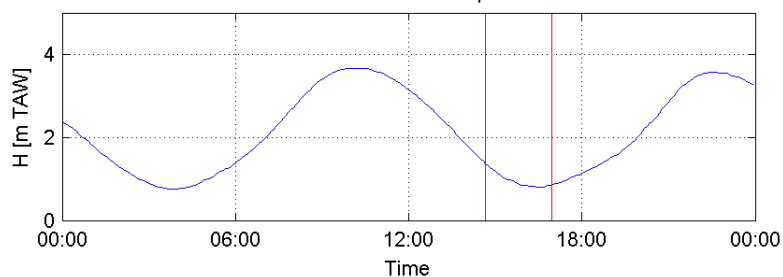
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 13-Apr-2007



HW/LW

09:55: h = 3.67m

22:30: h = 3.58m

16:25: h = 0.81m

Date/time:

13-Apr-2007

14:38 - 16:58

Time after HW

5:53

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

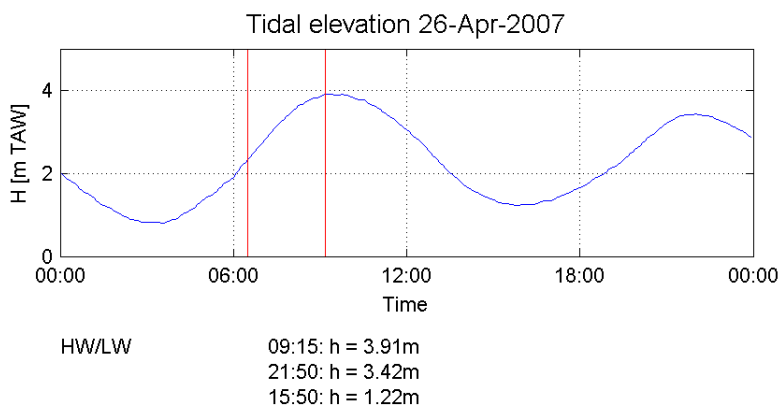
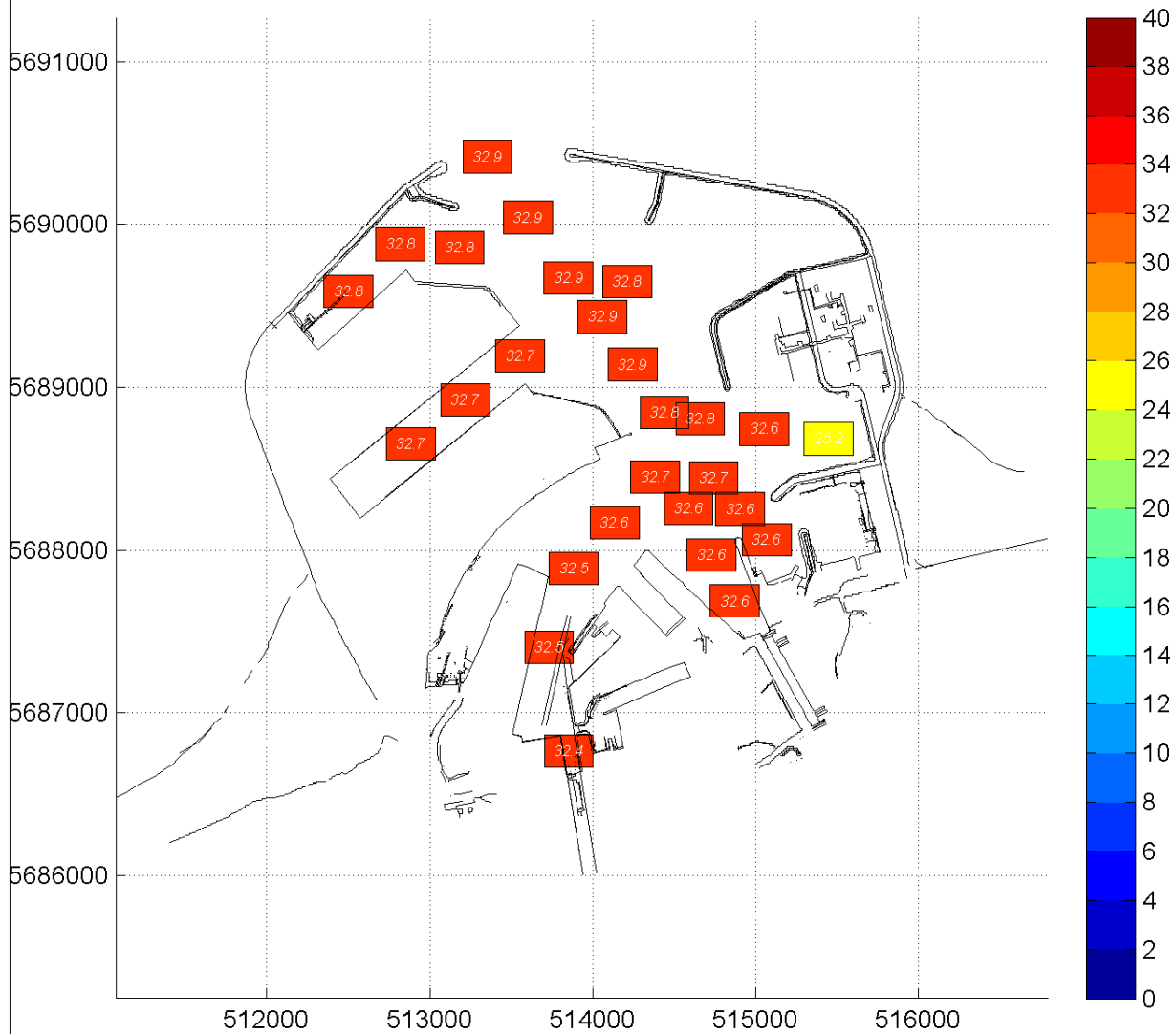
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

26-Apr-2007

06:28 - 09:10

Time after HW

-1:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

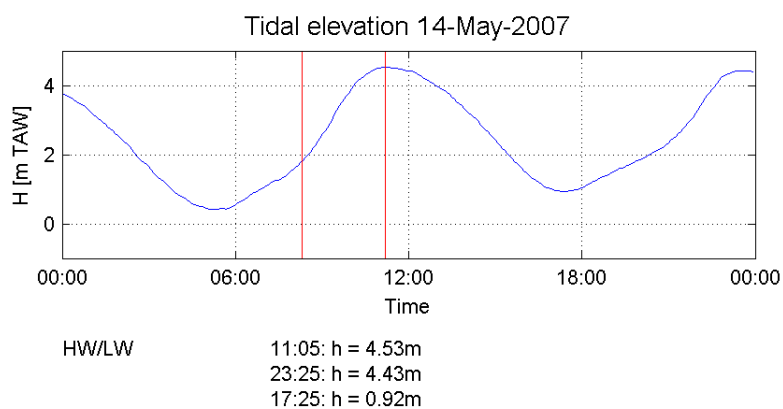
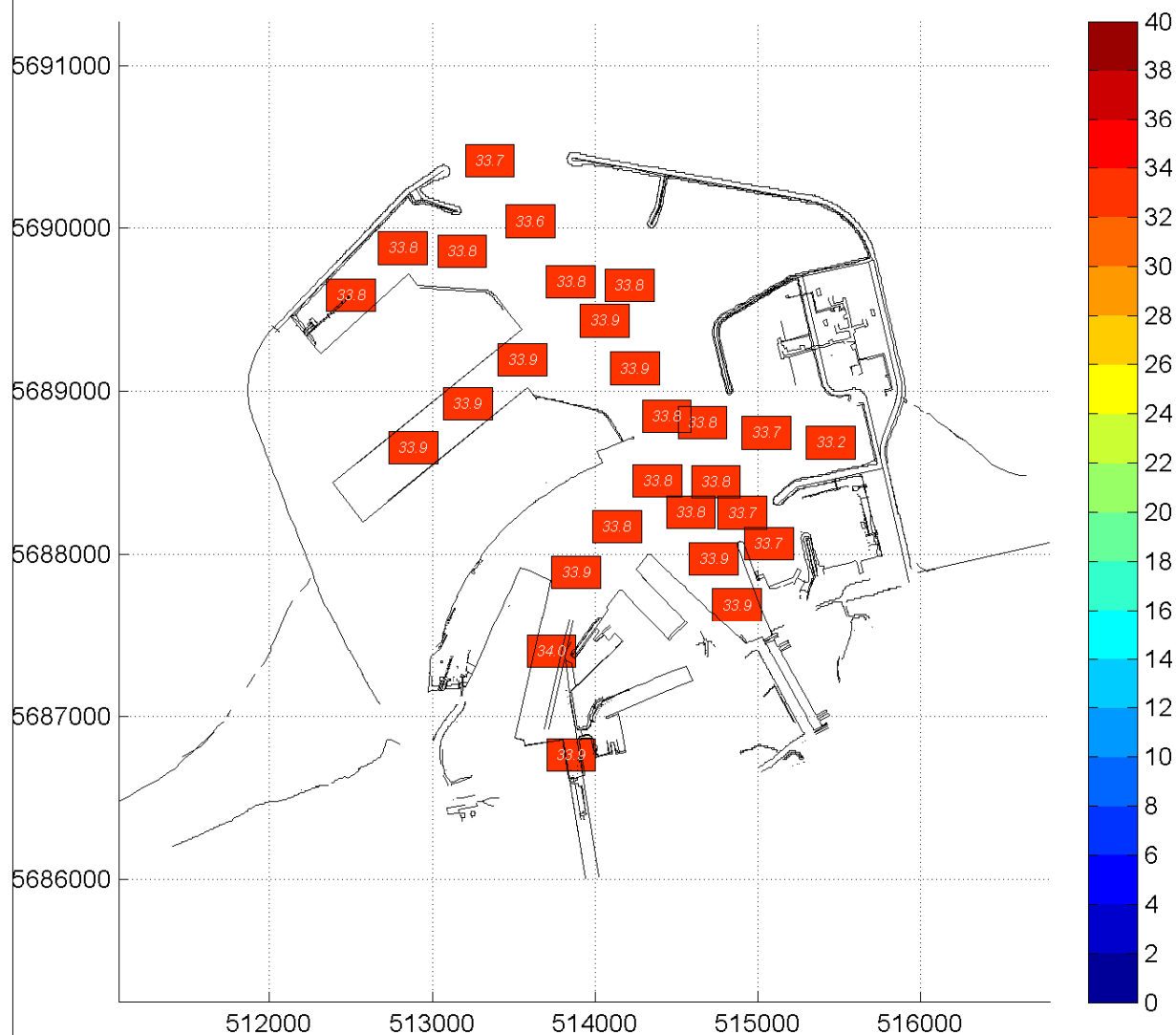
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

14-May-2007

08:17 - 11:11

Time after HW

-1:20

I/RA/11292/10.123/BQU

Data Processed by:



In association with:

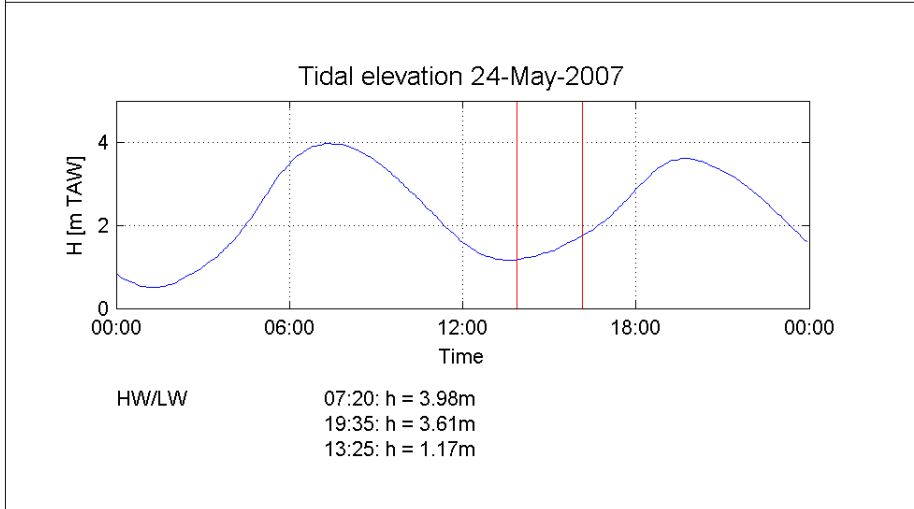
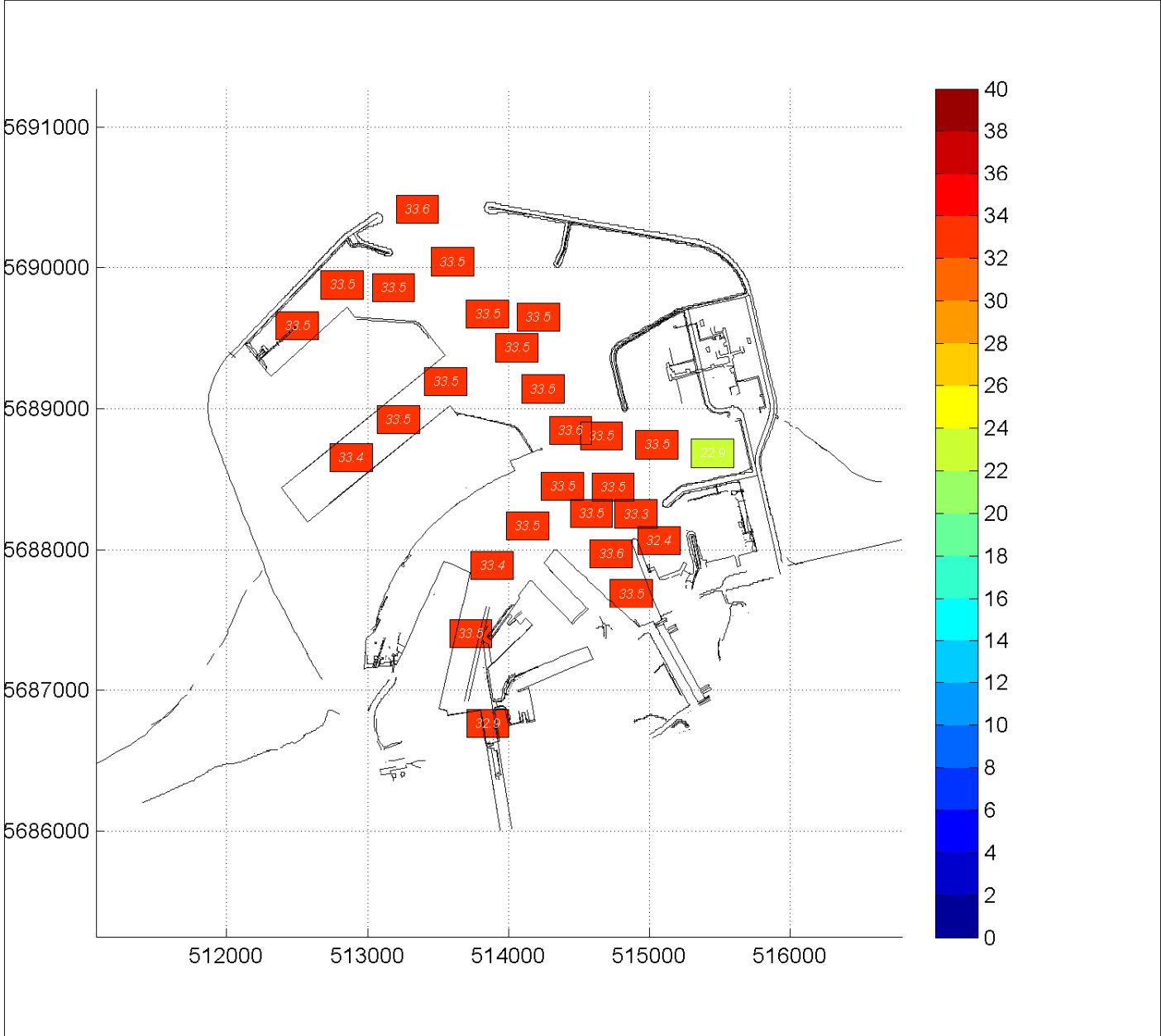


Horizontal salinity distribution in the port of Zeebrugge	
Project: 11292 - Zoutmetingen Zeebrugge	Location: Port of Zeebrugge
Depth: 90 % of the water depth	

Location:

Port of Zeebrugge

90 % of the water depth



Date/time:  
24-May-2007  
13:52 - 16:09

Time after HW  
-4:34


13:52 - 16:09

-4:34

I/RA/11292/10.123/BQU

Data Processed by:

In association with :

 **IMDC**  
International Marine & Dredging Consultants

 **GEMS**  
International

 **Deltares**  
Engineering Global Life



IMDC  
International Marine & Dredging Consultants




# Horizontal salinity distribution in the port of Zeebrugge

Project:

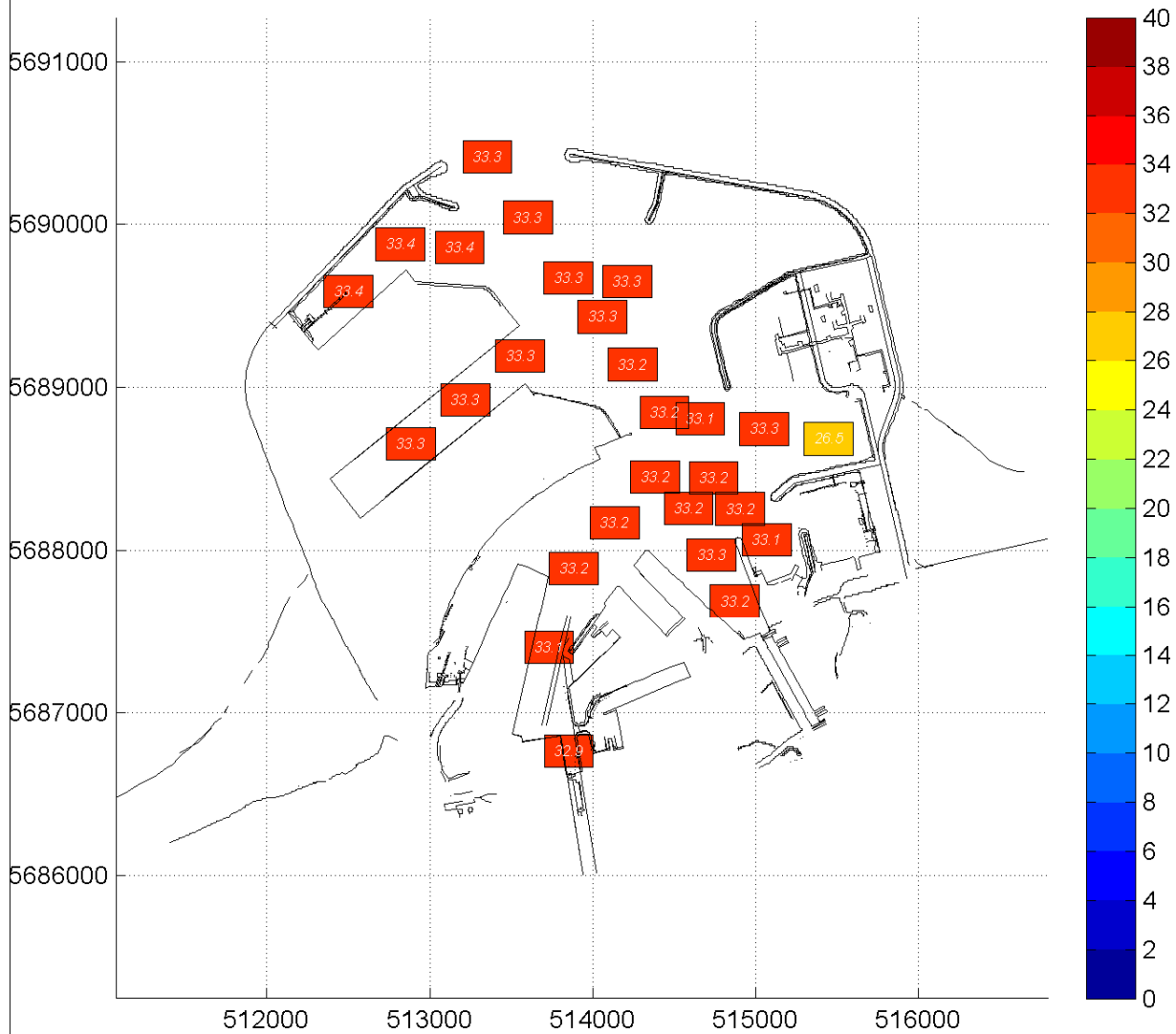
11292 - Zoutmetingen Zeebrugge

Location:

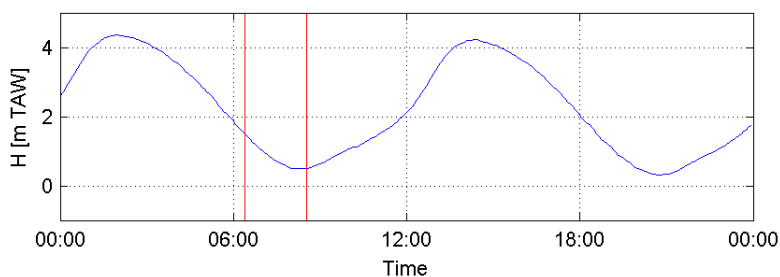
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 02-Jun-2007



HW/LW

01:55: h = 4.36m

14:20: h = 4.22m

08:20: h = 0.49m

Date/time:

02-Jun-2007

06:23 - 08:32

Time after HW

5:32

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

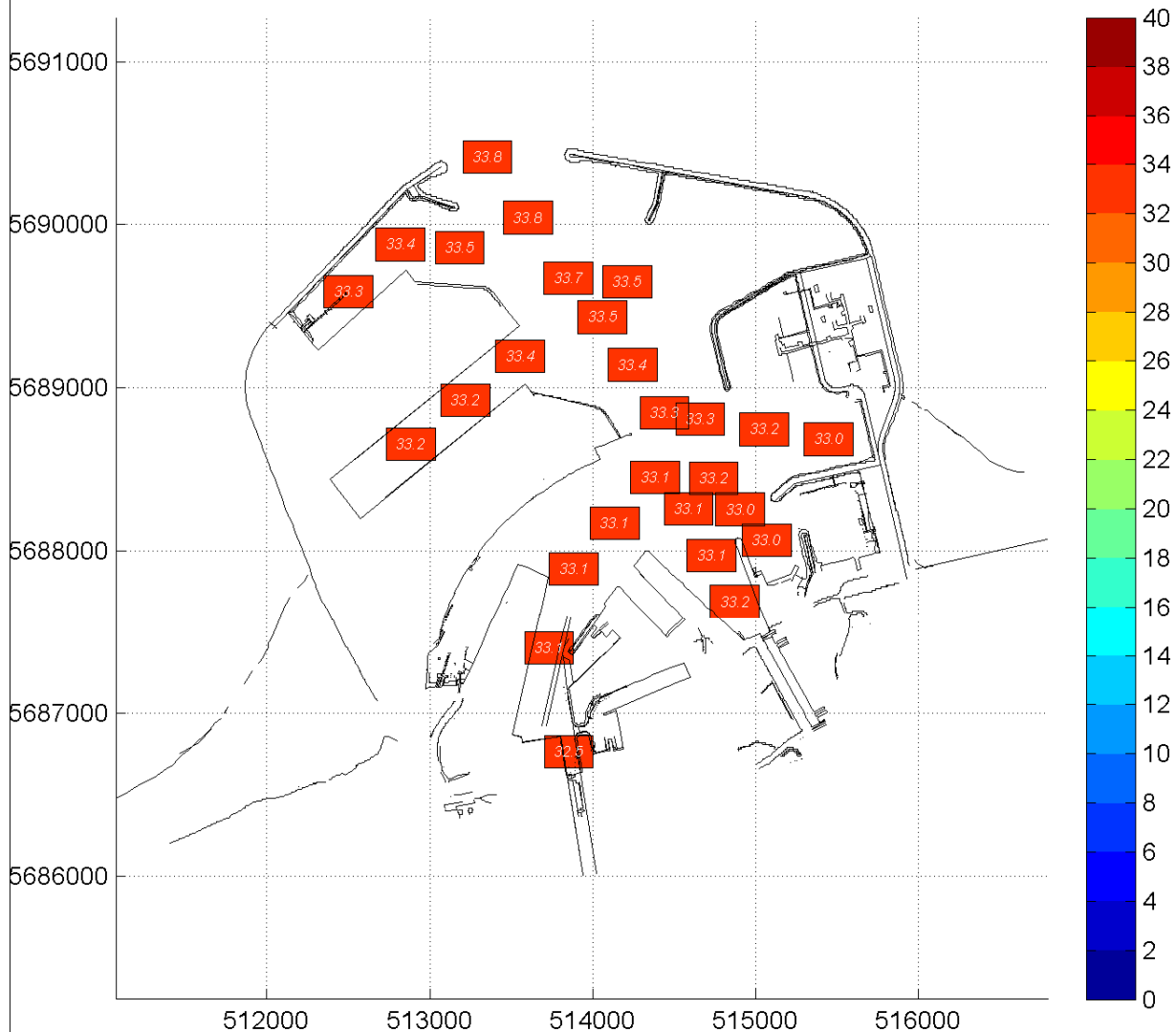
11292 - Zoutmetingen Zeebrugge

Location:

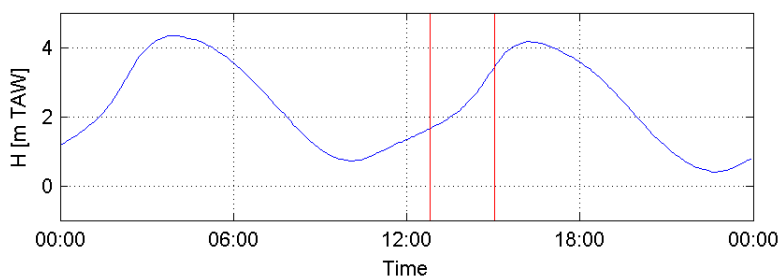
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 05-Jun-2007



HW/LW

03:45: h = 4.34m

16:10: h = 4.17m

10:00: h = 0.72m

Date/time:

05-Jun-2007

12:48 - 15:01

Time after HW

-2:15

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

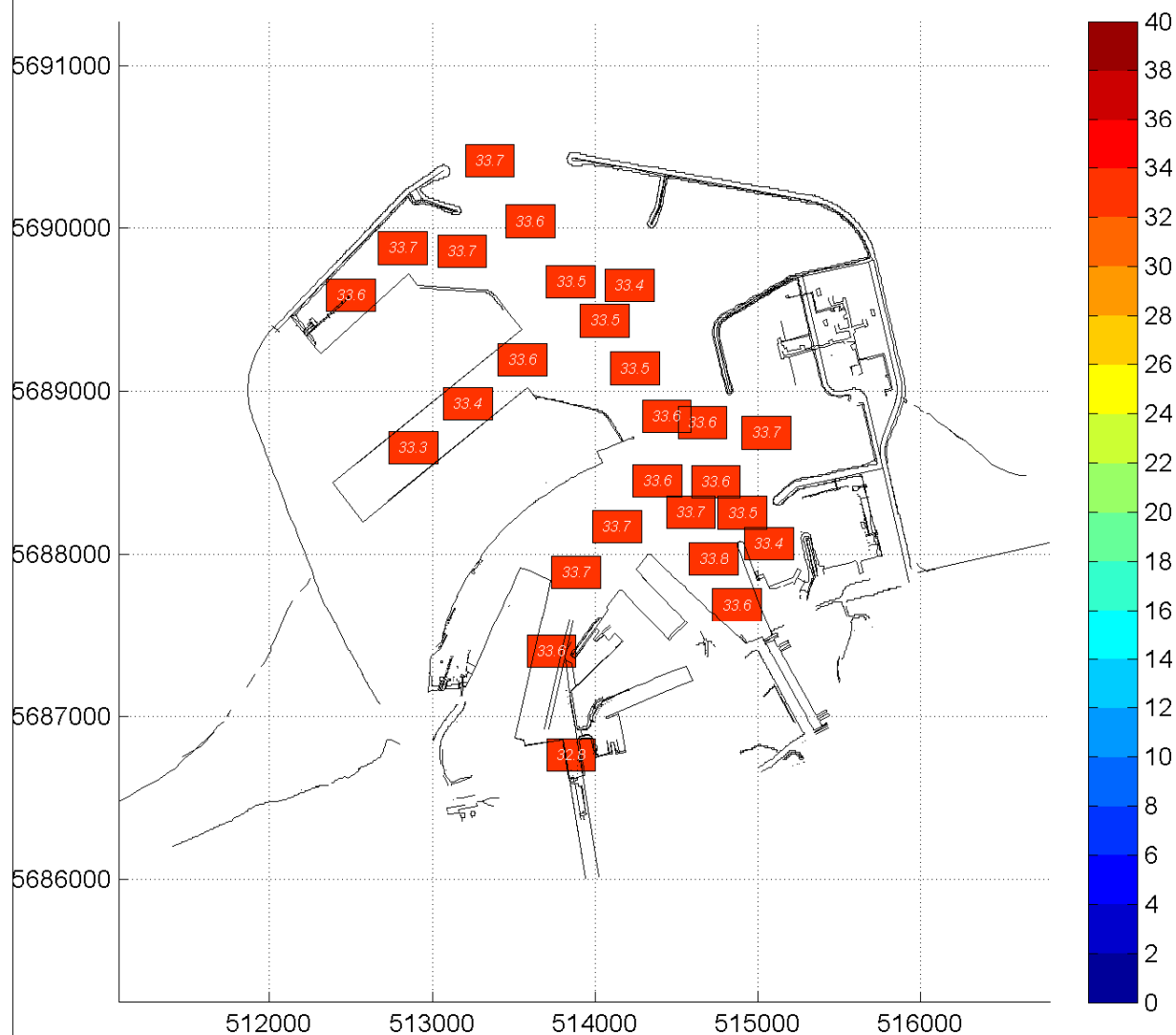
11292 - Zoutmetingen Zeebrugge

Location:

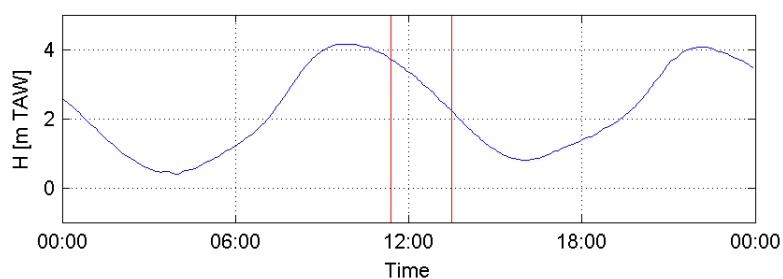
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 11-Jun-2007



HW/LW

09:35: h = 4.15m

22:00: h = 4.07m

15:55: h = 0.81m

Date/time:

11-Jun-2007

11:23 - 13:28

Time after HW

2:50

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

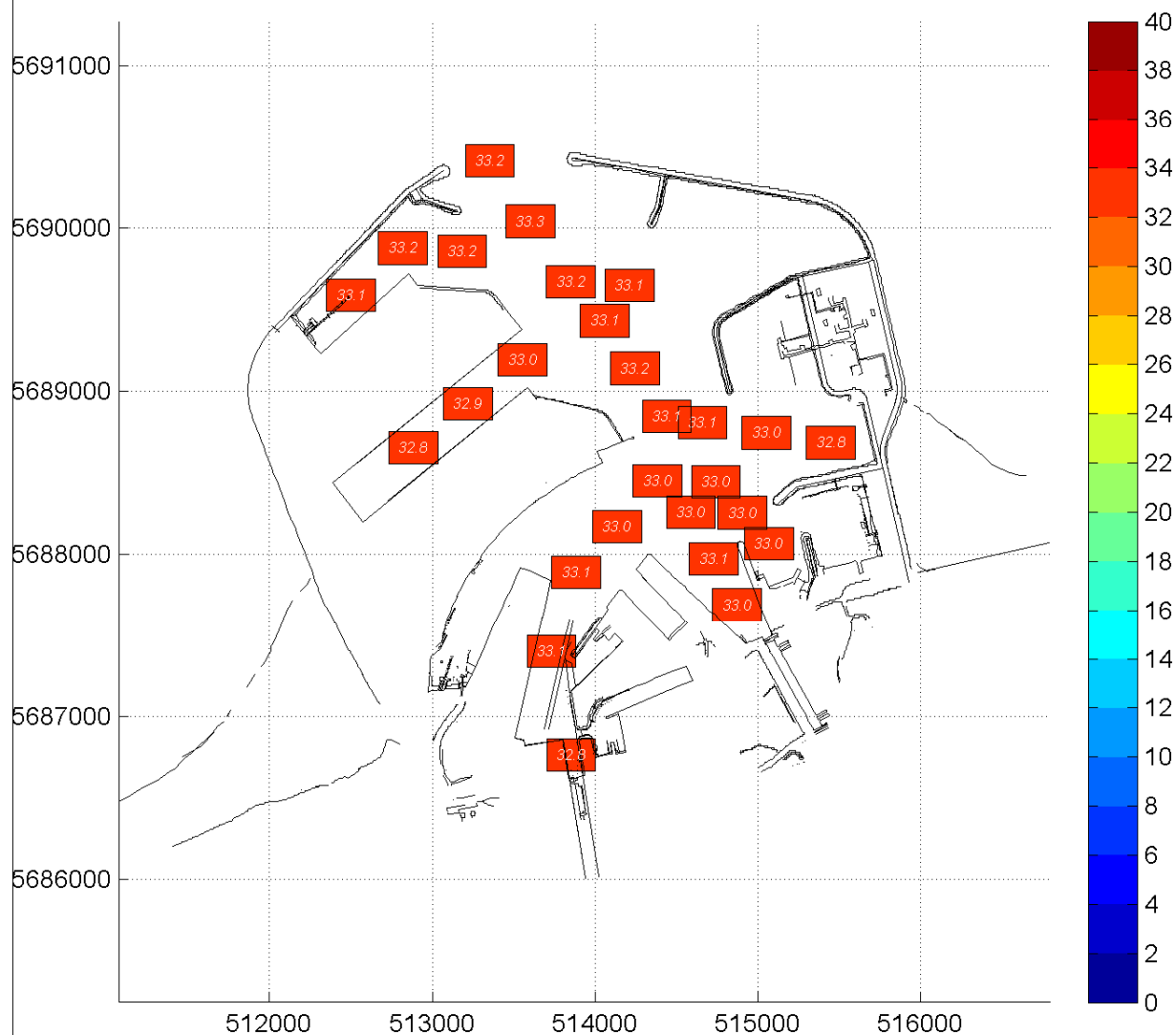
11292 - Zoutmetingen Zeebrugge

Location:

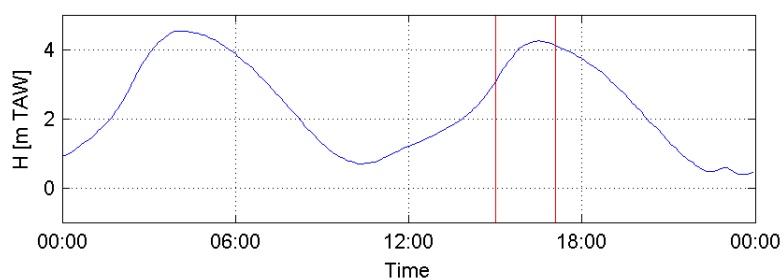
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 19-Jun-2007



HW/LW

04:00: h = 4.53m

16:30: h = 4.25m

10:20: h = 0.69m

Date/time:

19-Jun-2007

15:00 - 17:04

Time after HW

-0:27

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

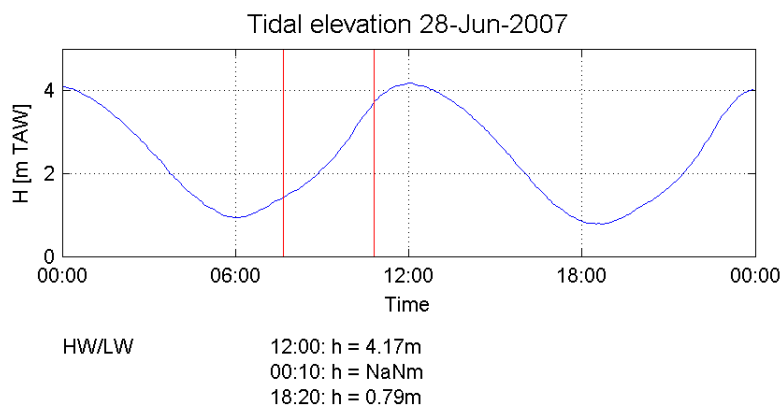
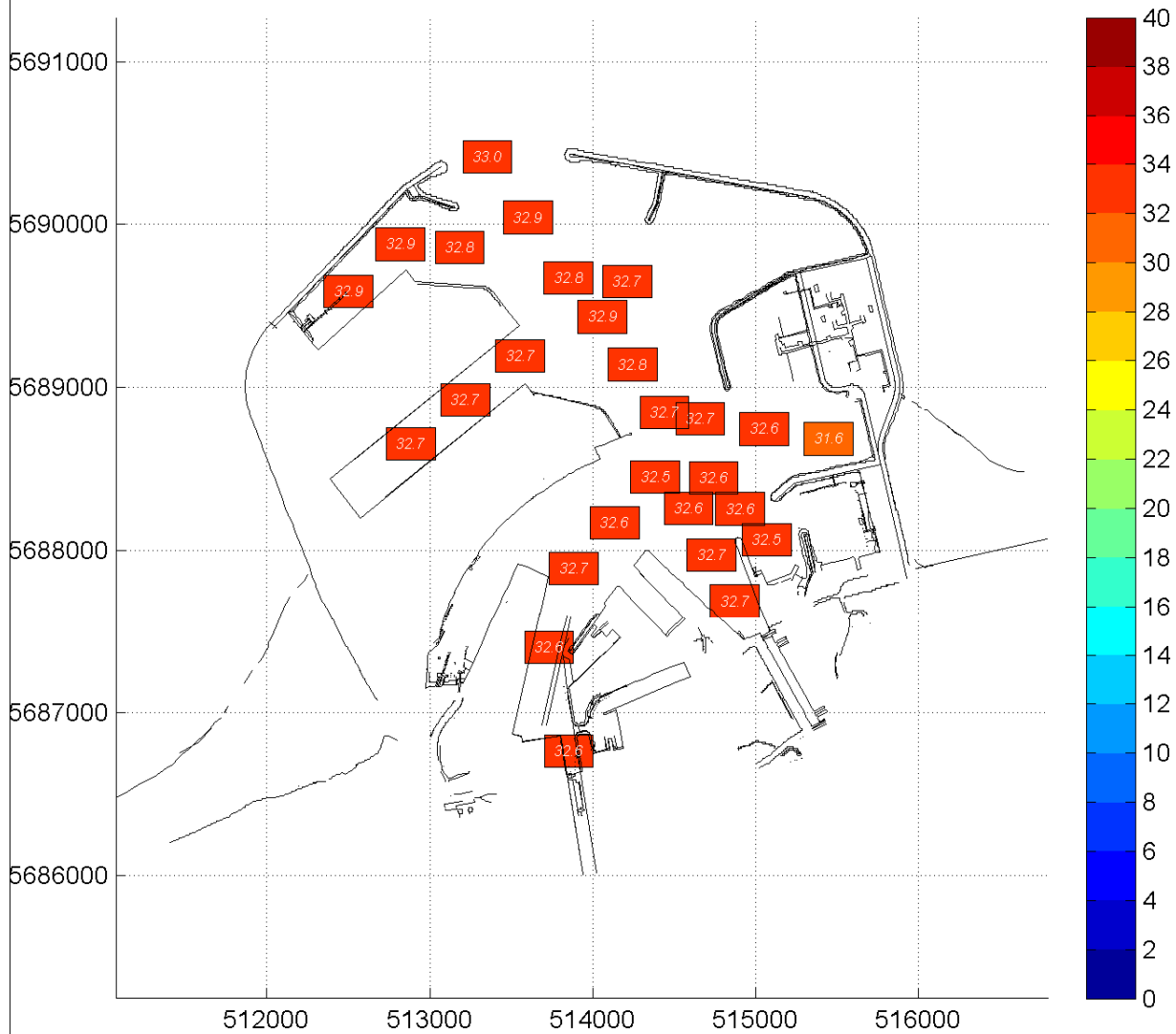
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

28-Jun-2007

07:39 - 10:47

Time after HW

-2:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

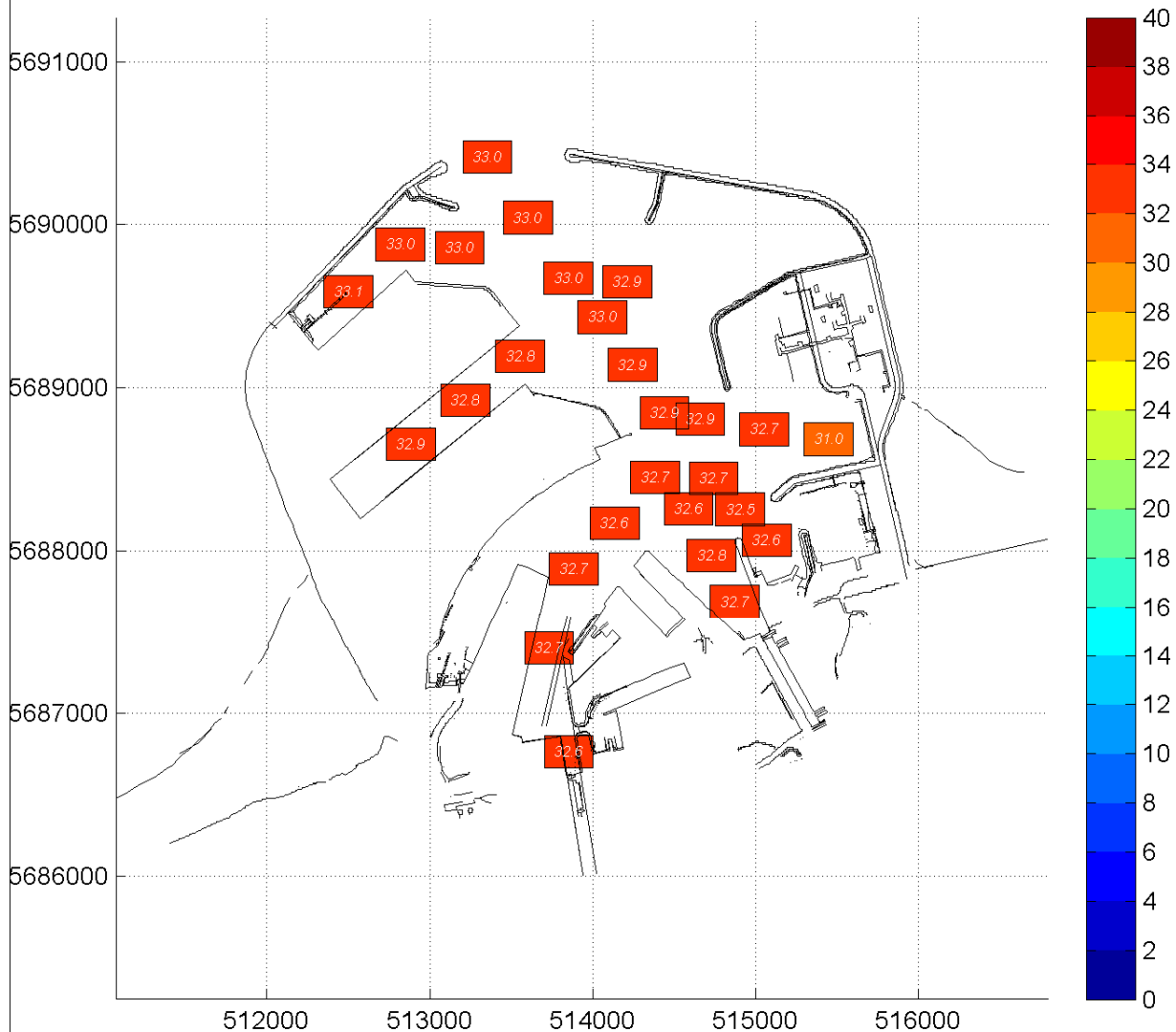
11292 - Zoutmetingen Zeebrugge

Location:

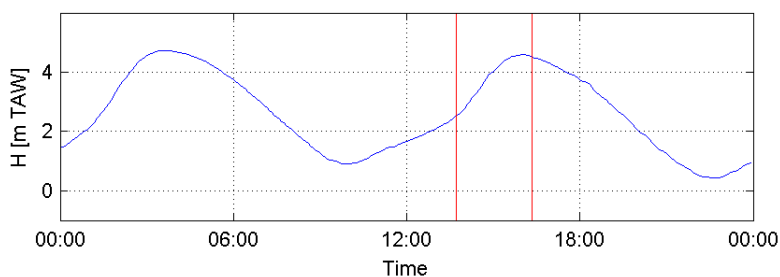
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 04-Jul-2007



HW/LW

03:35: h = 4.73m

16:00: h = 4.59m

09:50: h = 0.9m

Date/time:

04-Jul-2007

13:43 - 16:20

Time after HW

-0:58

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

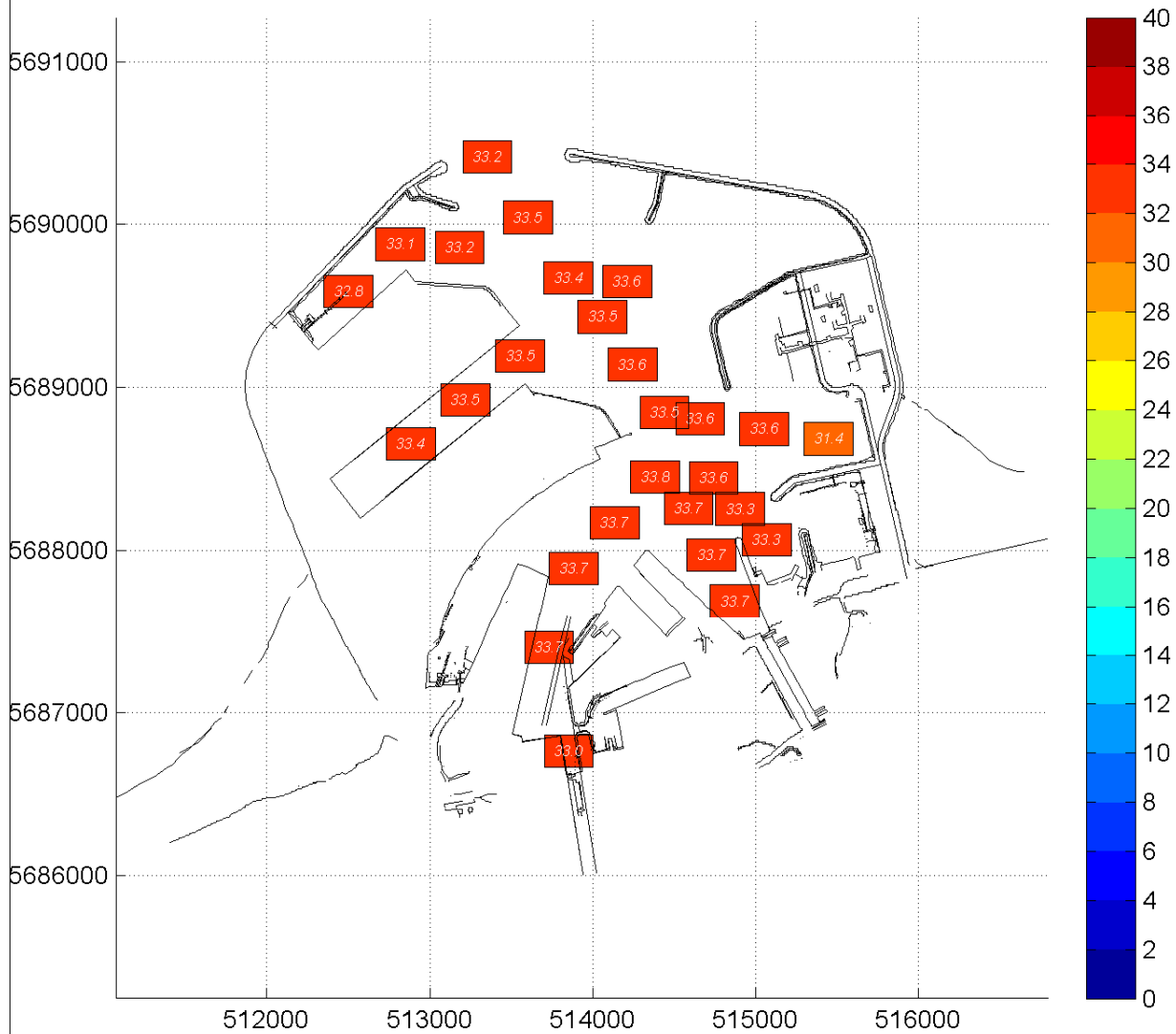
11292 - Zoutmetingen Zeebrugge

Location:

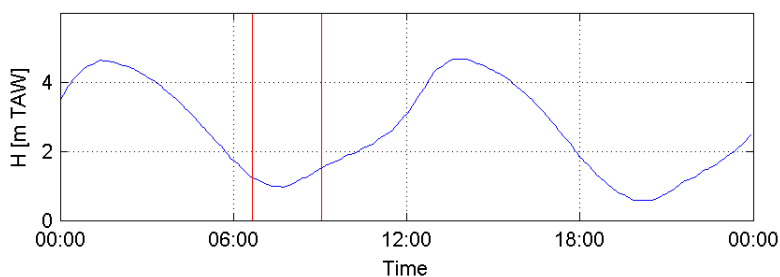
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 30-Jul-2007



HW/LW

01:25: h = 4.63m

13:40: h = 4.66m

07:40: h = 0.97m

Date/time:

30-Jul-2007

06:39 - 09:03

Time after HW

-5:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

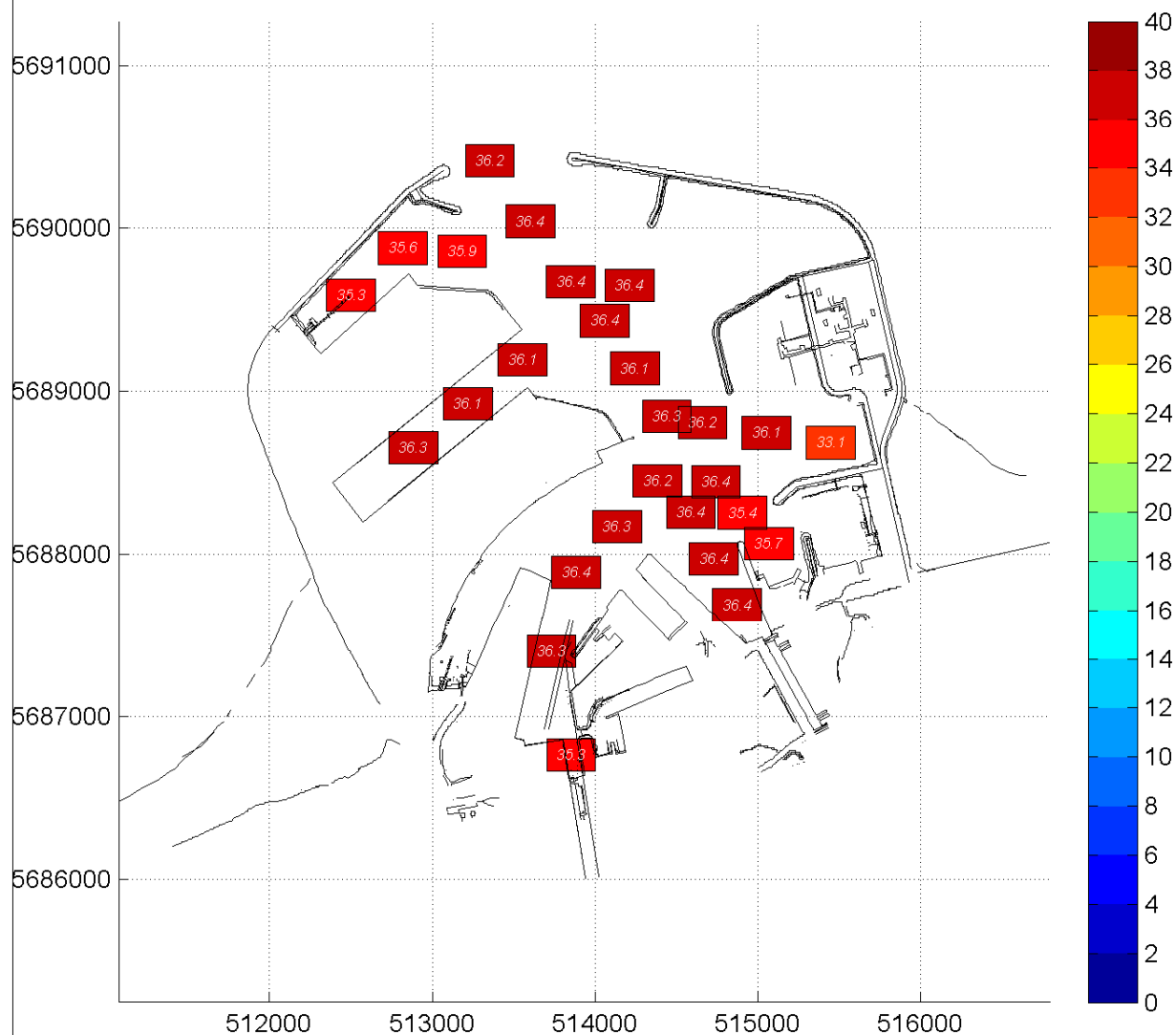
11292 - Zoutmetingen Zeebrugge

Location:

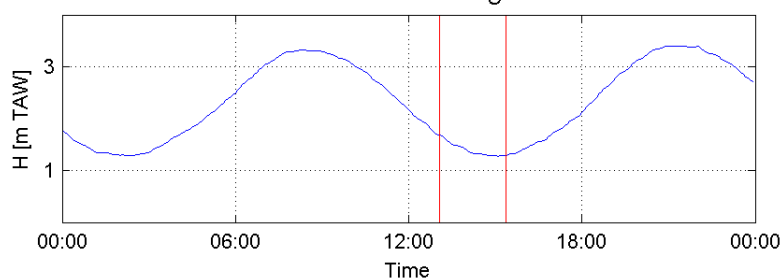
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 23-Aug-2007



HW/LW

07:45: h = 3.29m

21:00: h = 3.4m

14:55: h = 1.28m

Date/time:

23-Aug-2007

13:03 - 15:22

Time after HW

6:28

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

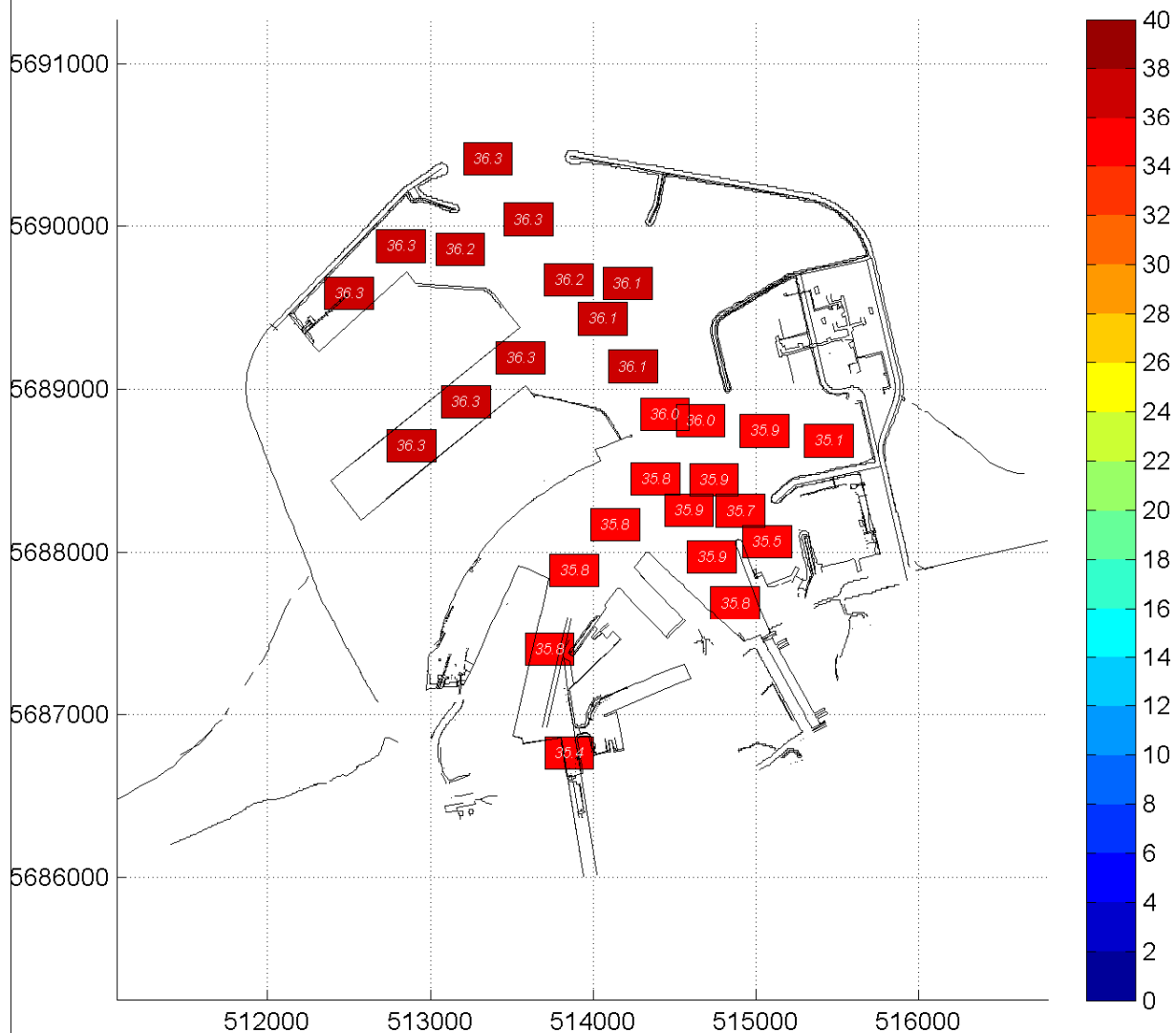
11292 - Zoutmetingen Zeebrugge

Location:

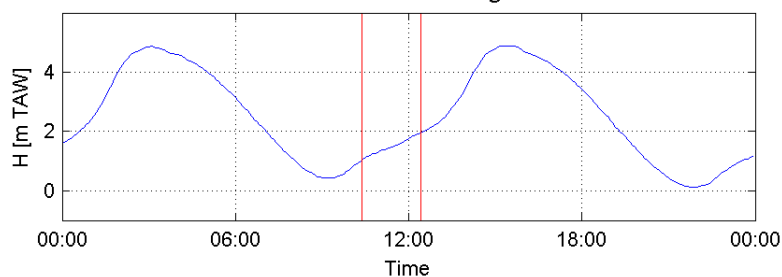
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 31-Aug-2007



HW/LW

03:05: h = 4.87m

15:20: h = 4.88m

09:05: h = 0.43m

Date/time:

31-Aug-2007

10:22 - 12:25

Time after HW

-3:55

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

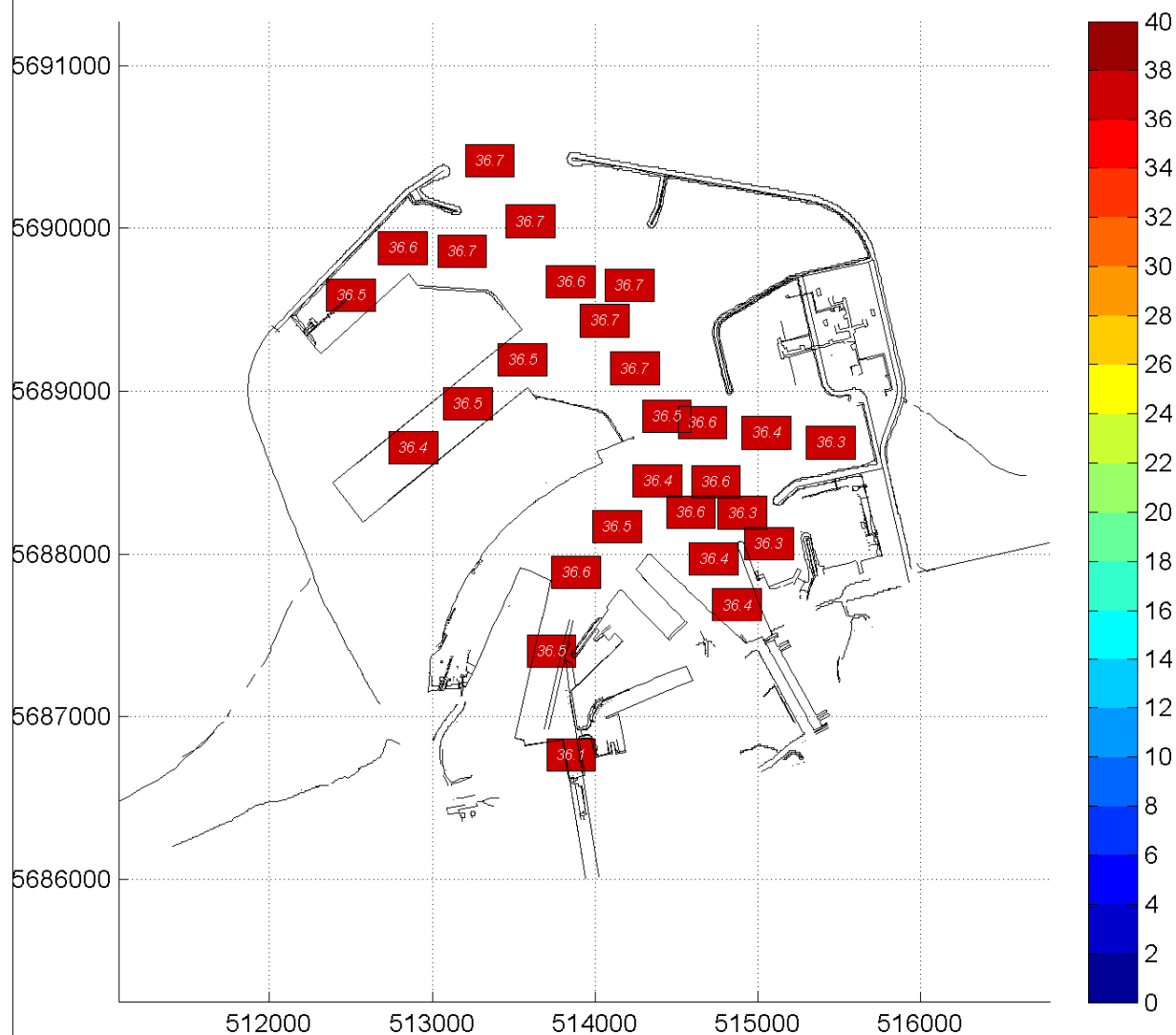
11292 - Zoutmetingen Zeebrugge

Location:

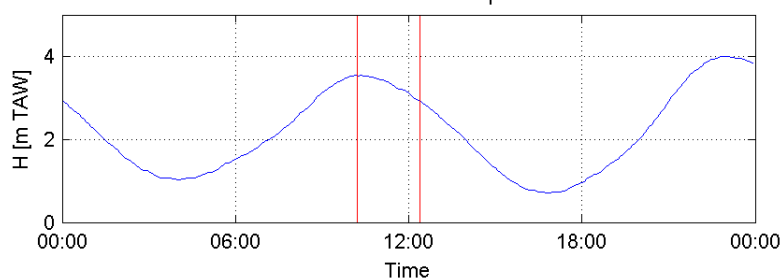
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 07-Sep-2007



HW/LW

10:10: h = 3.54m

22:55: h = 4m

16:45: h = 0.72m

Date/time:

07-Sep-2007

10:12 - 12:22

Time after HW

1:07

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

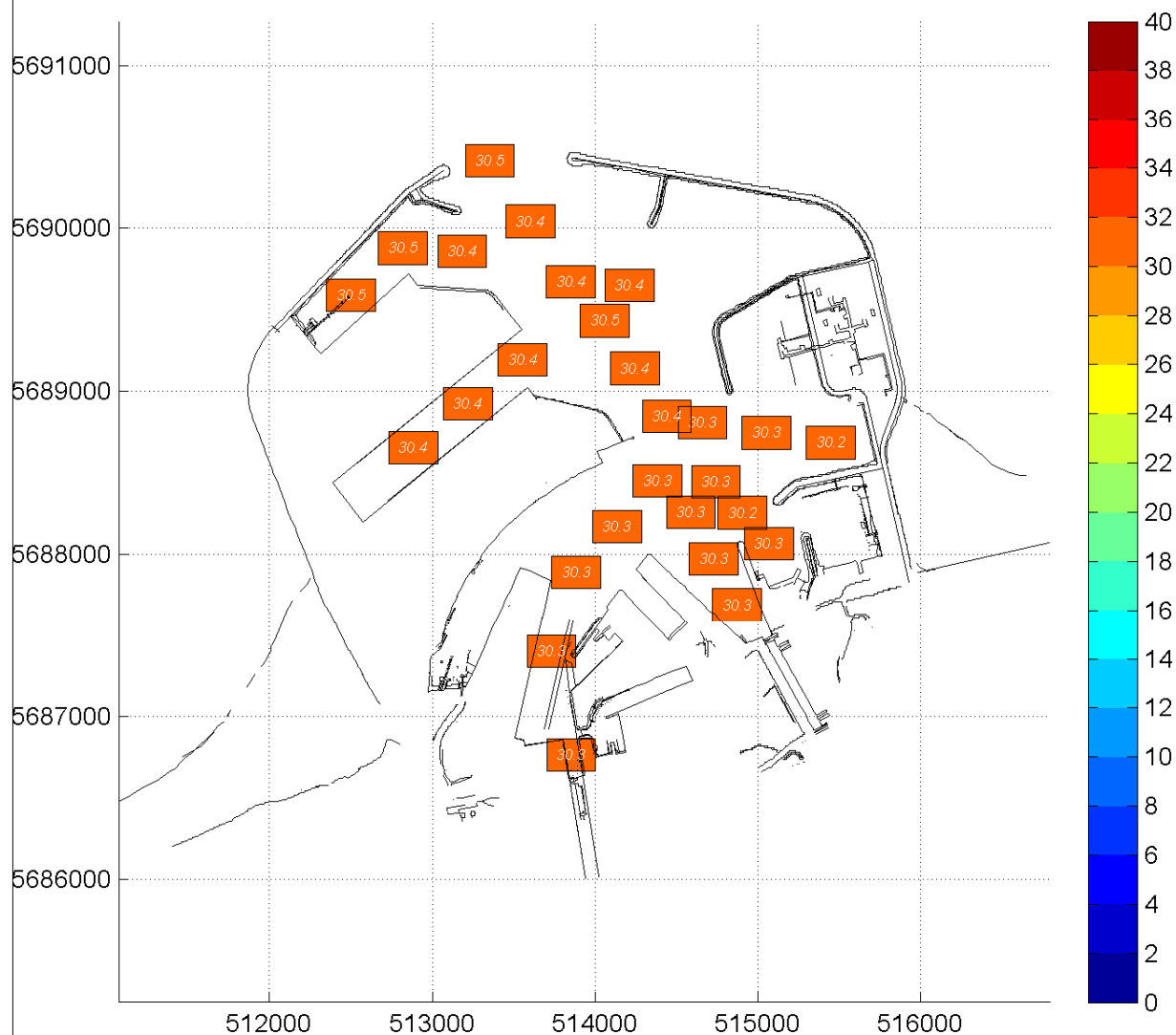
11292 - Zoutmetingen Zeebrugge

Location:

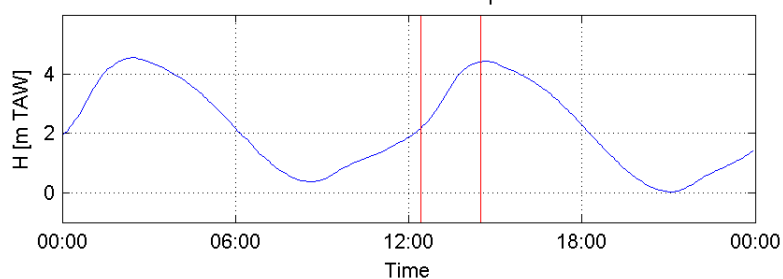
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 13-Sep-2007



HW/LW

02:25: h = 4.55m

14:40: h = 4.44m

08:30: h = 0.37m

Date/time:

13-Sep-2007

12:25 - 14:30

Time after HW

-1:11

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

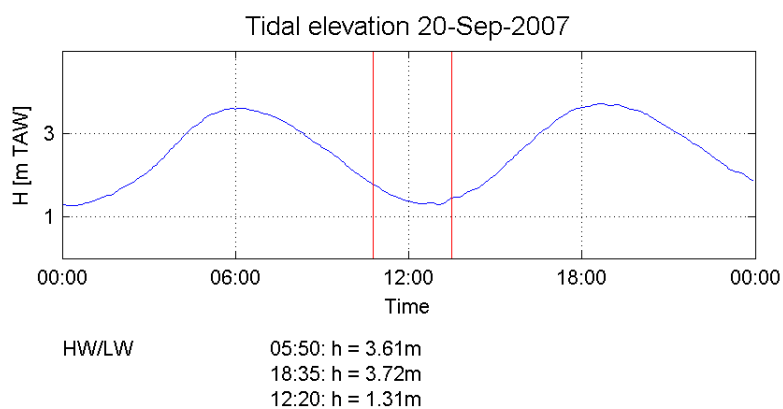
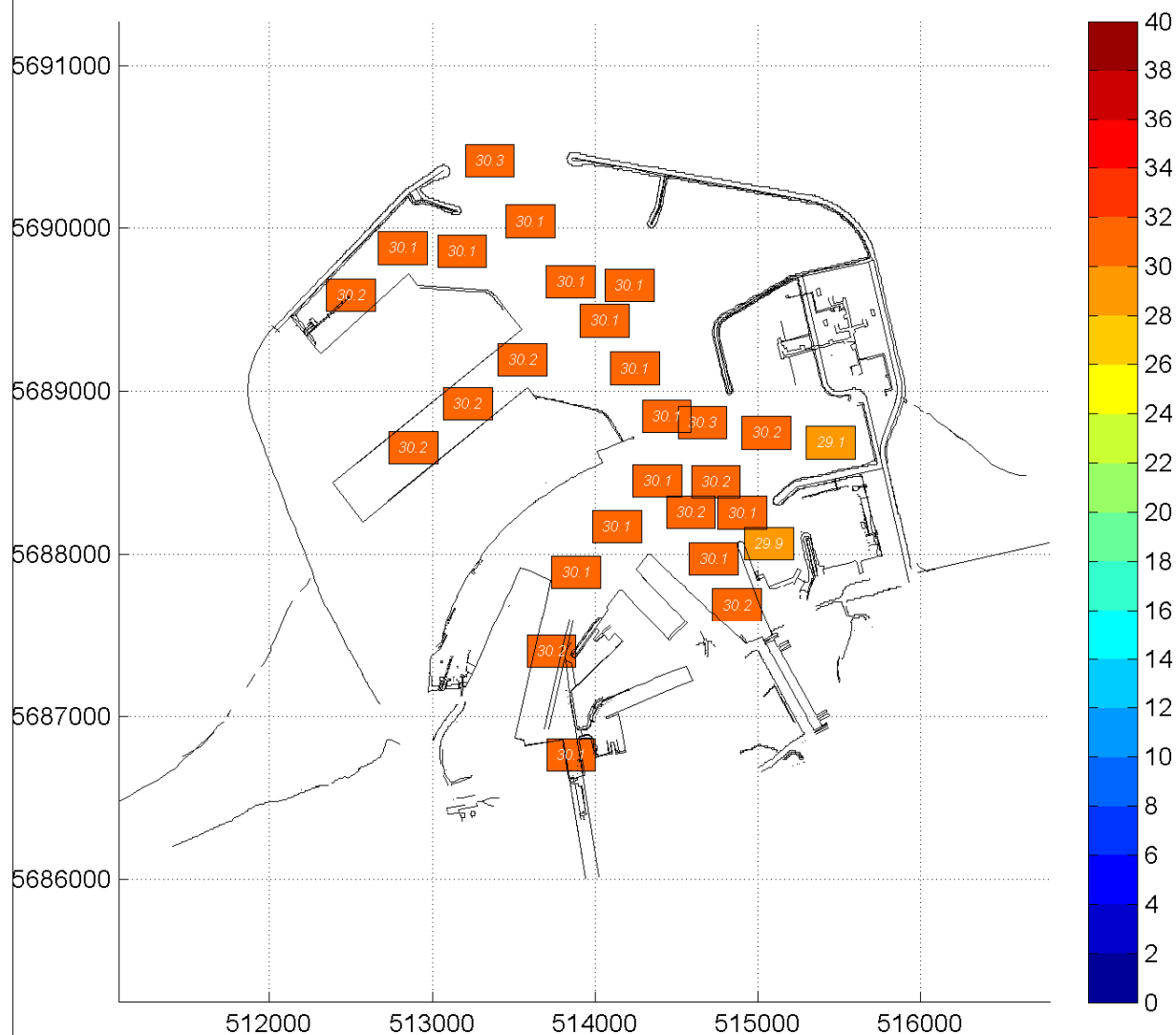
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

20-Sep-2007

10:46 - 13:28

Time after HW

6:17

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

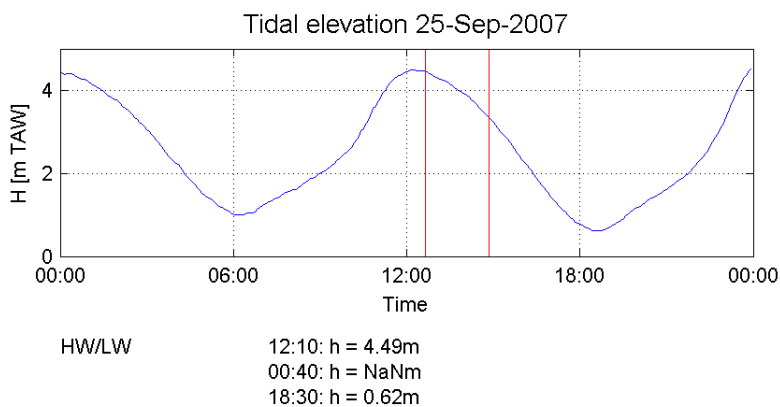
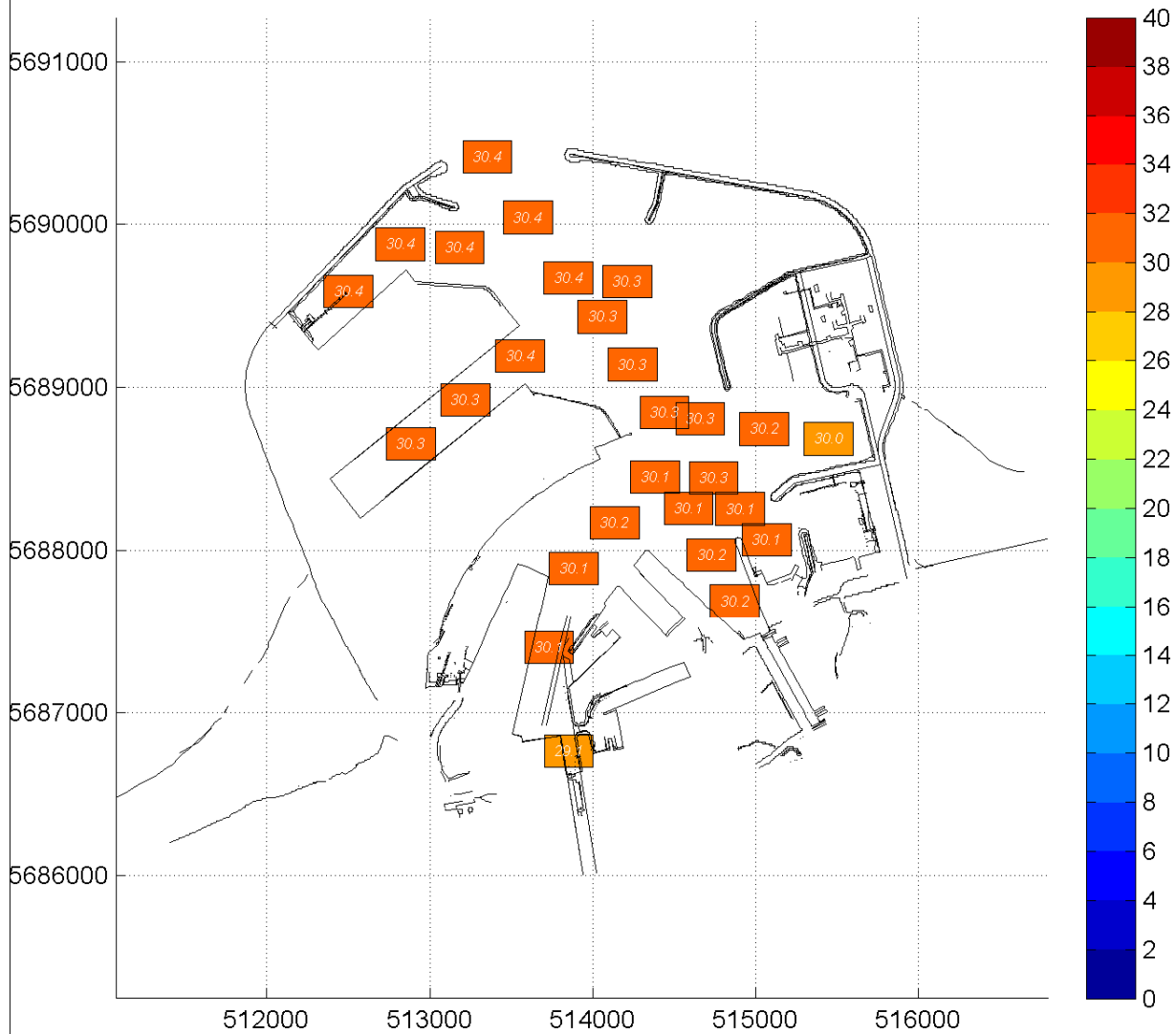
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

25-Sep-2007

12:38 - 14:51

Time after HW

1:34

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

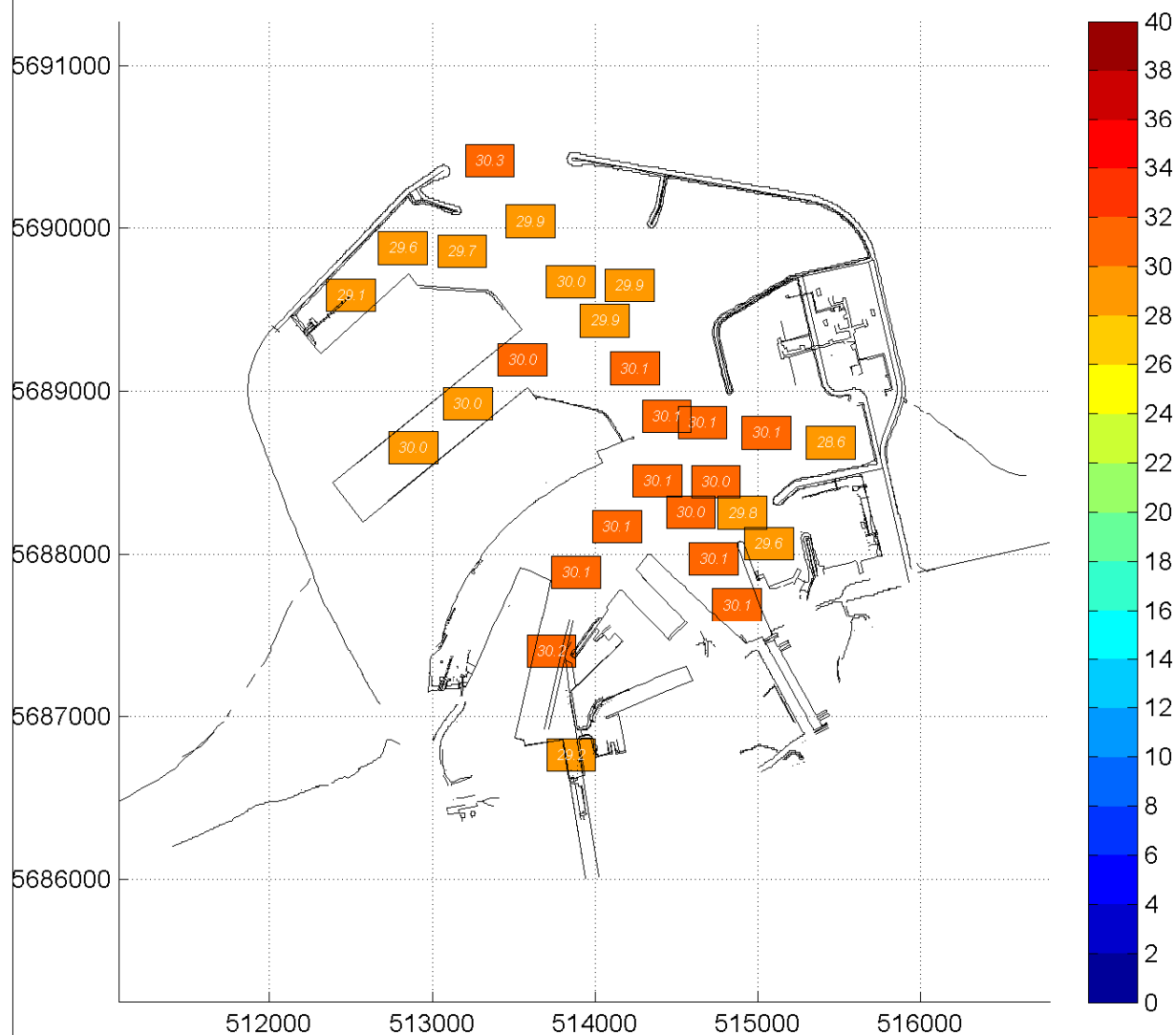
11292 - Zoutmetingen Zeebrugge

Location:

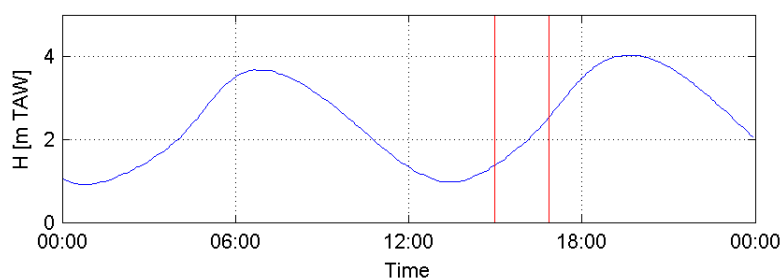
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 04-Oct-2007



HW/LW

06:40: h = 3.68m

19:35: h = 4.03m

13:25: h = 0.97m

Date/time:

04-Oct-2007

14:58 - 16:51

Time after HW

-3:40

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

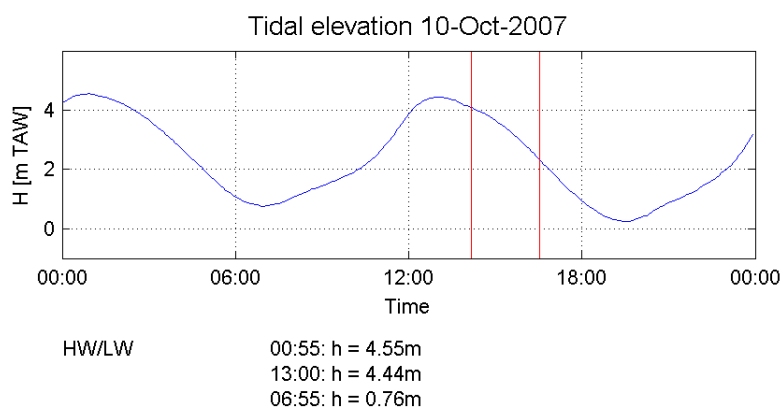
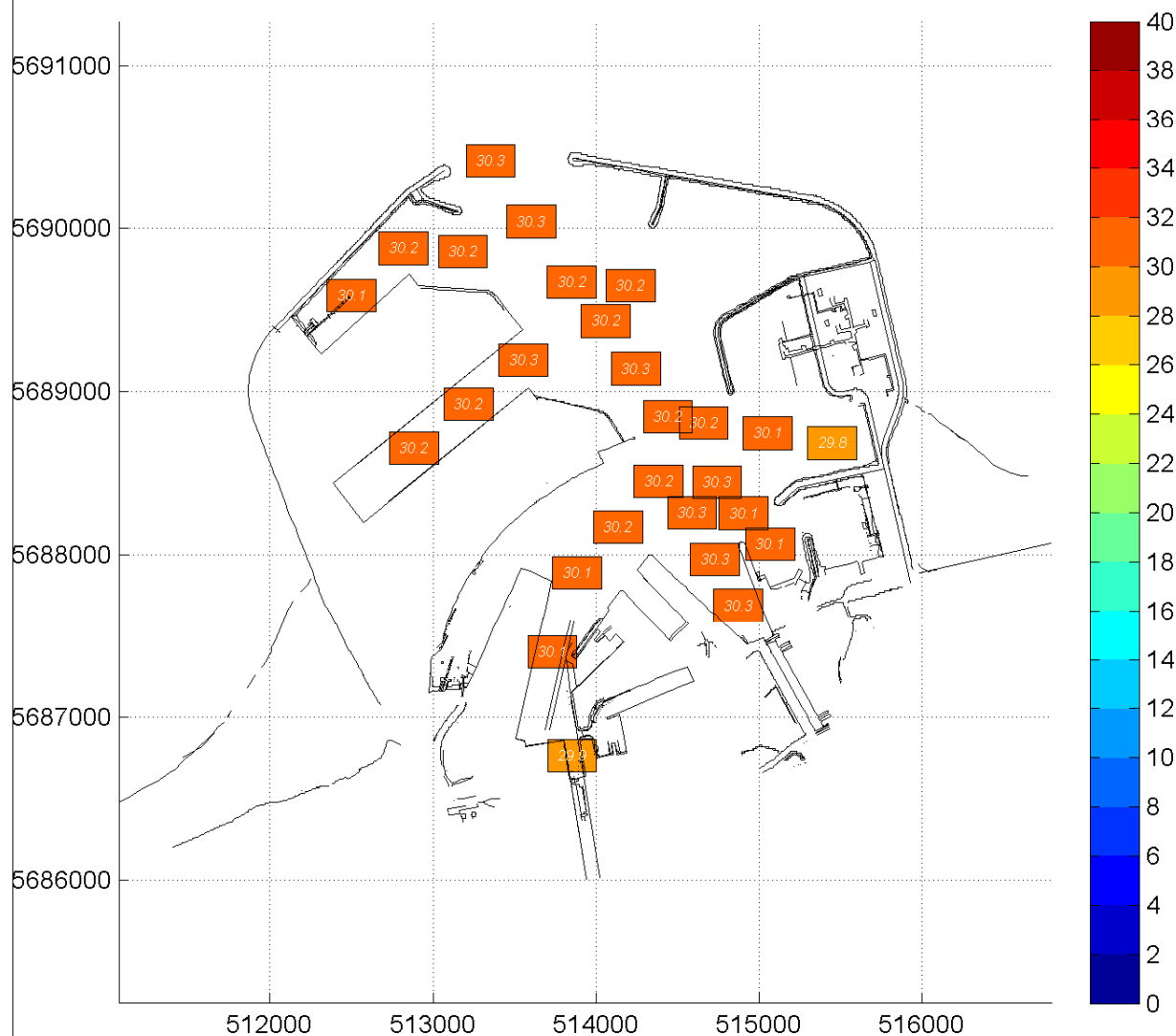
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

10-Oct-2007

14:09 - 16:31

Time after HW

2:20

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

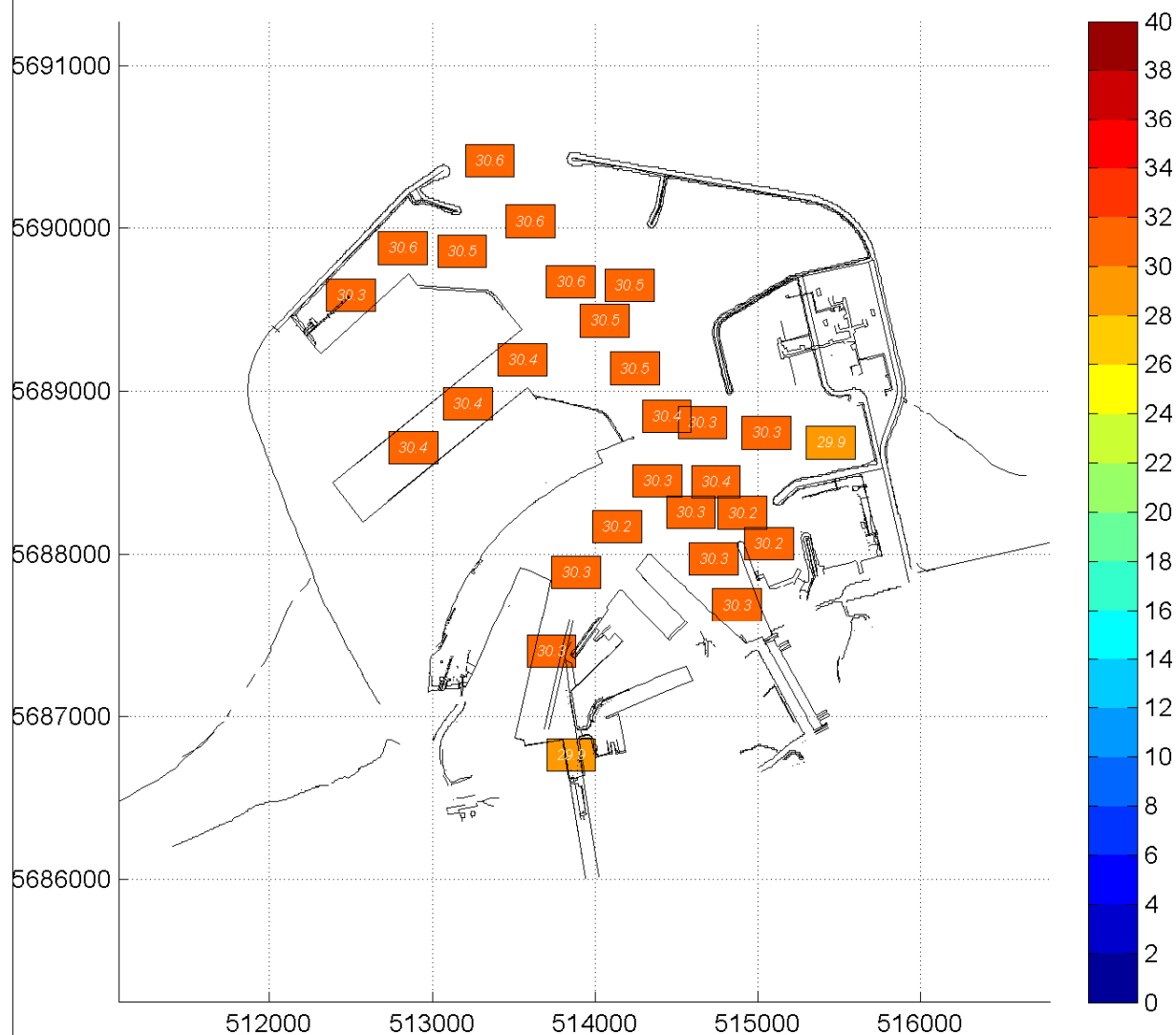
11292 - Zoutmetingen Zeebrugge

Location:

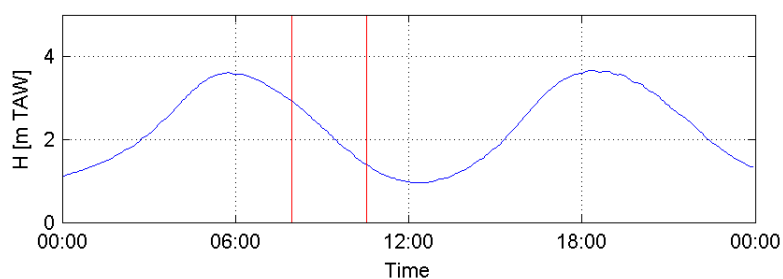
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 19-Oct-2007



HW/LW

05:45: h = 3.61m

18:20: h = 3.66m

12:10: h = 0.95m

Date/time:

19-Oct-2007

07:57 - 10:32

Time after HW

3:30

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

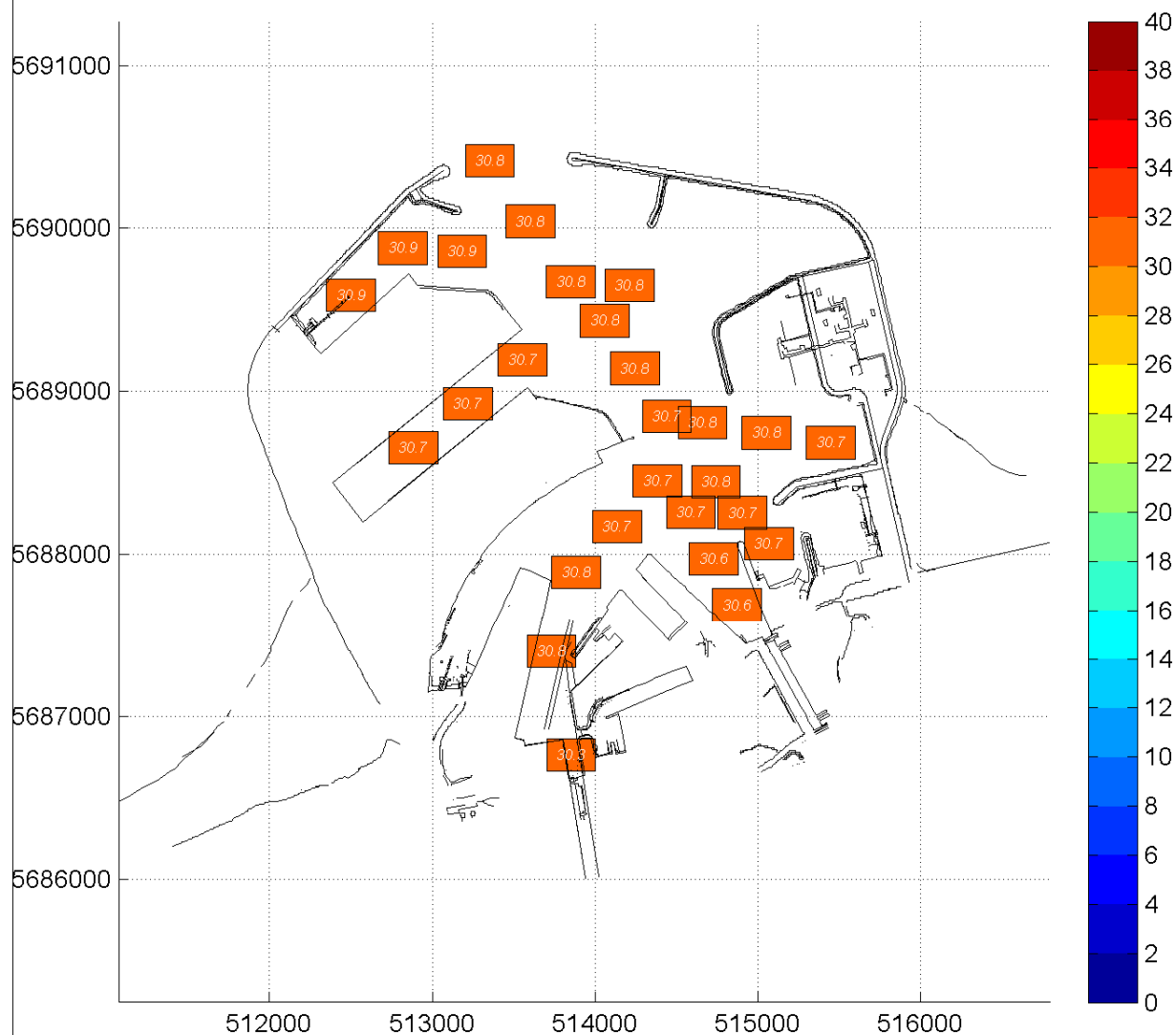
11292 - Zoutmetingen Zeebrugge

Location:

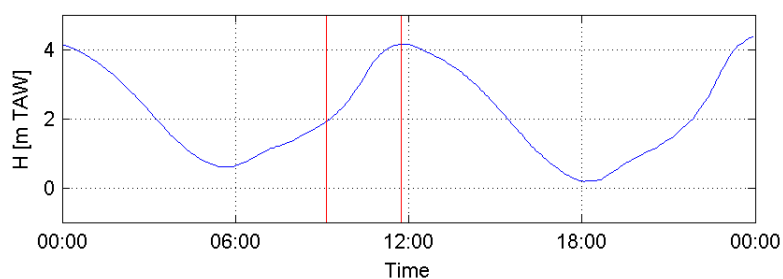
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 24-Oct-2007



HW/LW

11:50: h = 4.16m

00:15: h = NaNm

18:05: h = 0.18m

Date/time:

24-Oct-2007

09:09 - 11:44

Time after HW

-1:23

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

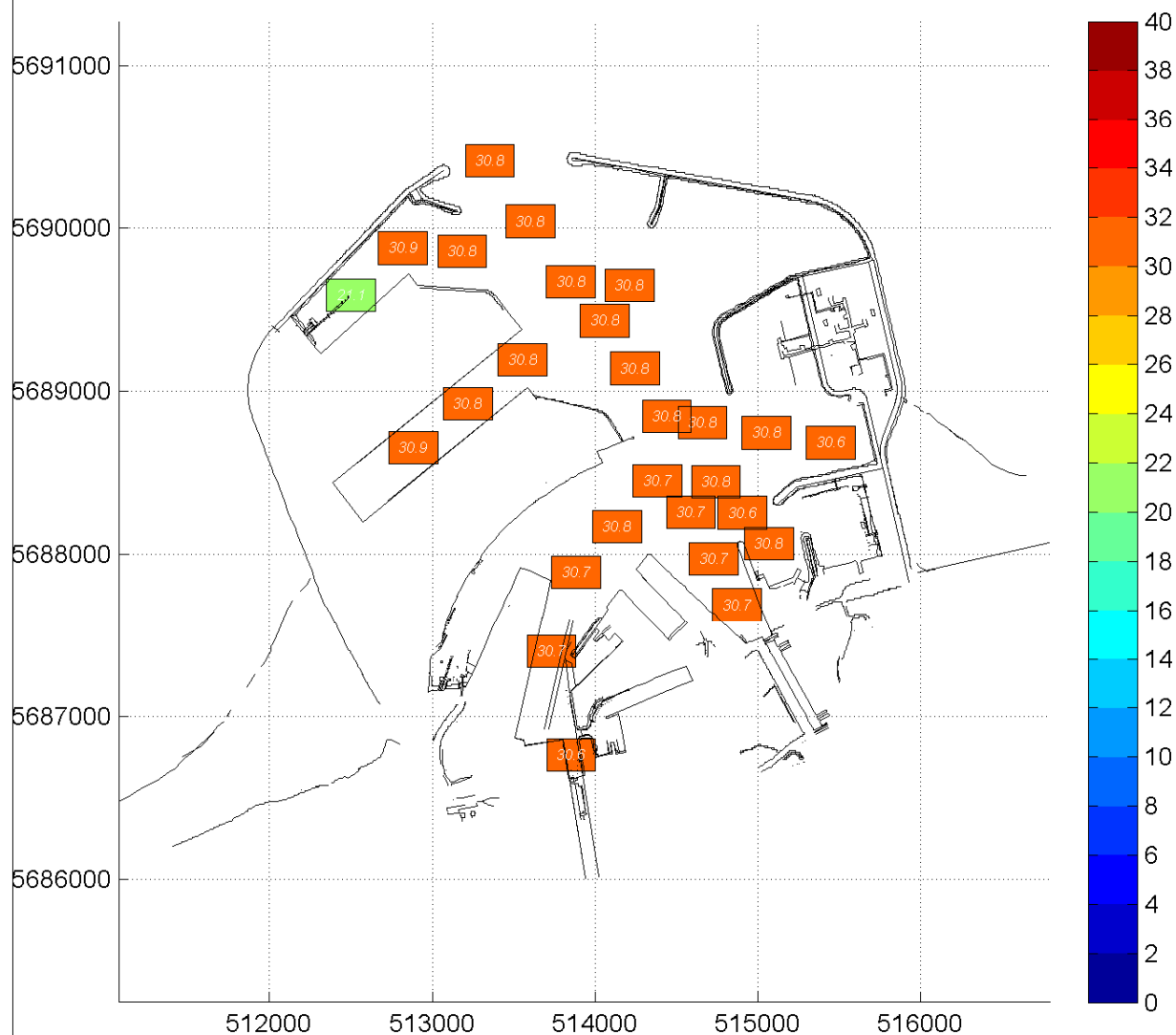
11292 - Zoutmetingen Zeebrugge

Location:

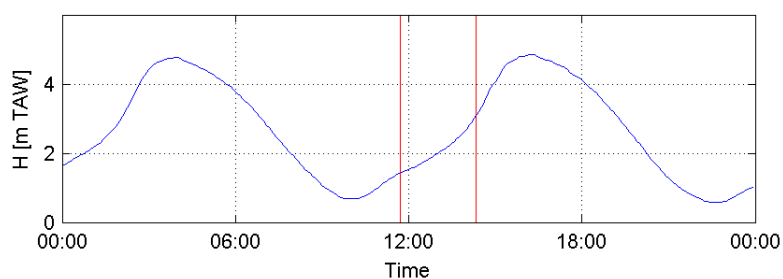
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 30-Oct-2007



HW/LW

03:55: h = 4.77m

16:15: h = 4.85m

10:00: h = 0.68m

Date/time:

30-Oct-2007

11:42 - 14:20

Time after HW

-3:13

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

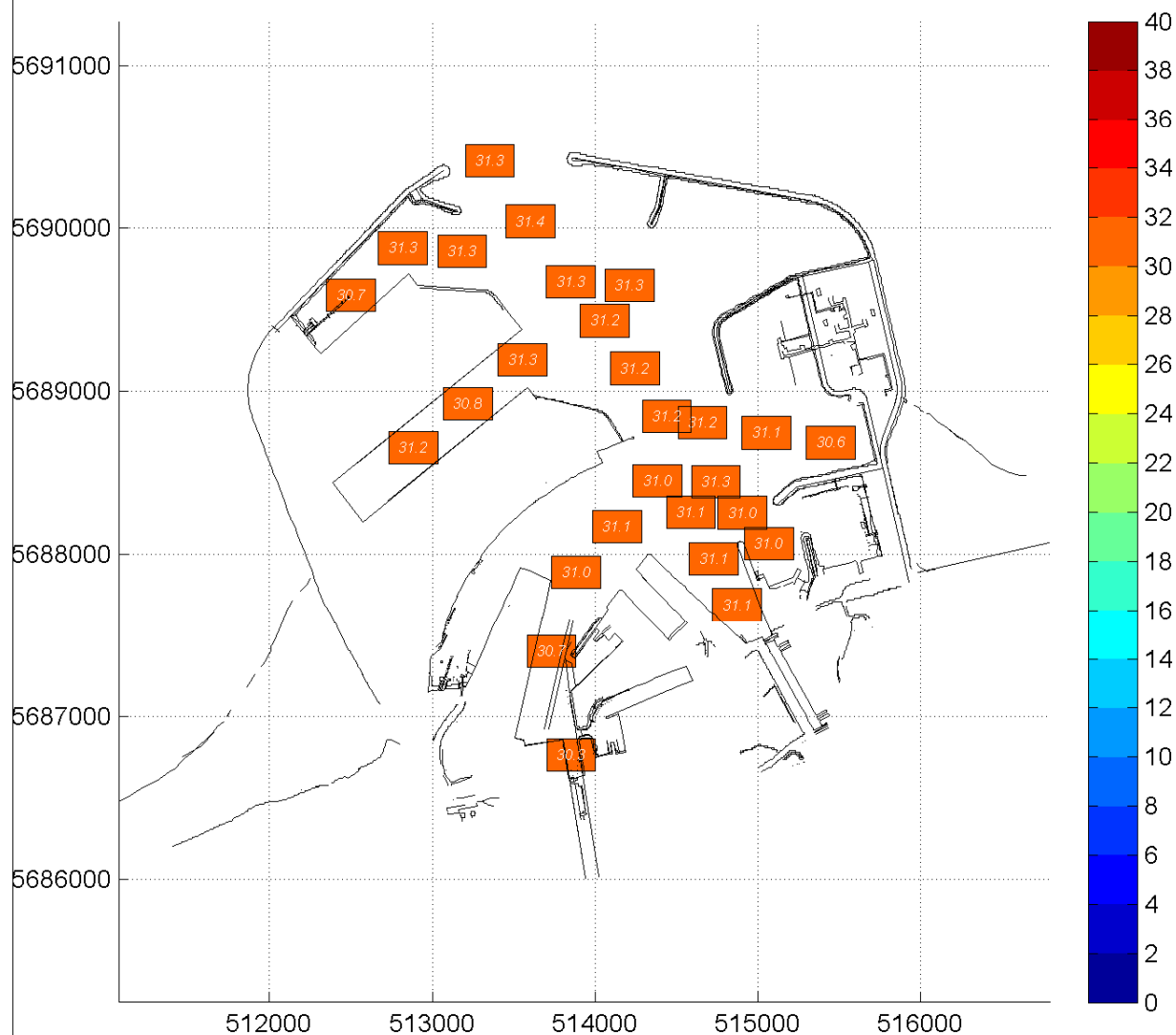
11292 - Zoutmetingen Zeebrugge

Location:

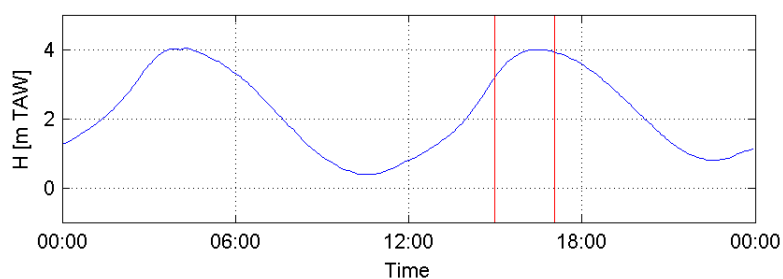
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 15-Nov-2007



HW/LW

03:50: h = 4.02m

16:15: h = 4m

10:25: h = 0.38m

Date/time:

15-Nov-2007

14:59 - 17:02

Time after HW

-0:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

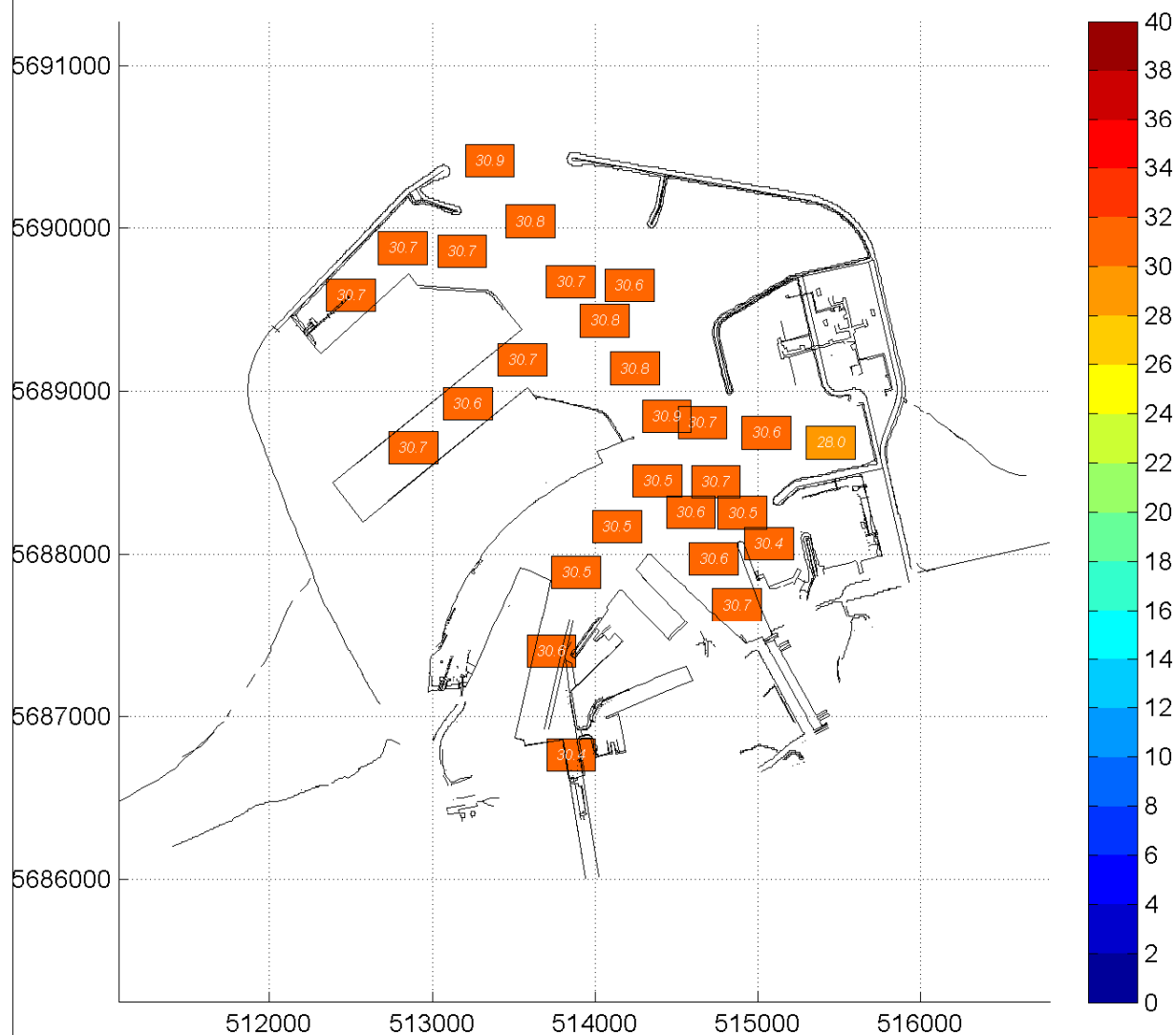
11292 - Zoutmetingen Zeebrugge

Location:

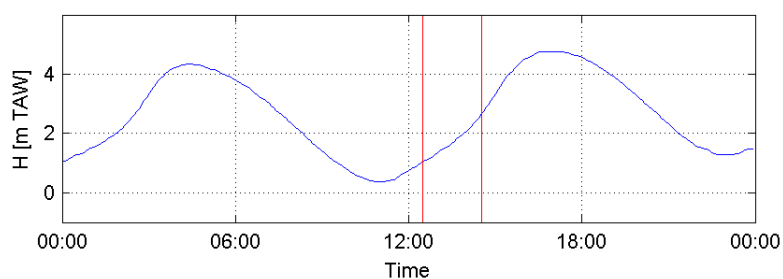
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 29-Nov-2007



HW/LW

04:20: h = 4.34m

16:35: h = 4.76m

11:00: h = 0.36m

Date/time:

29-Nov-2007

12:28 - 14:31

Time after HW

-3:04

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

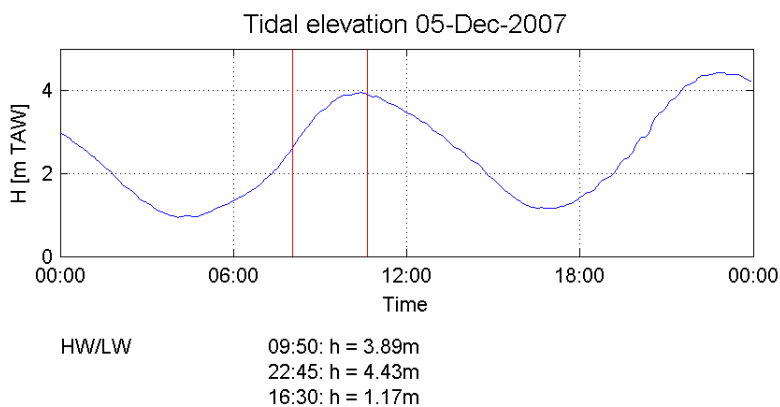
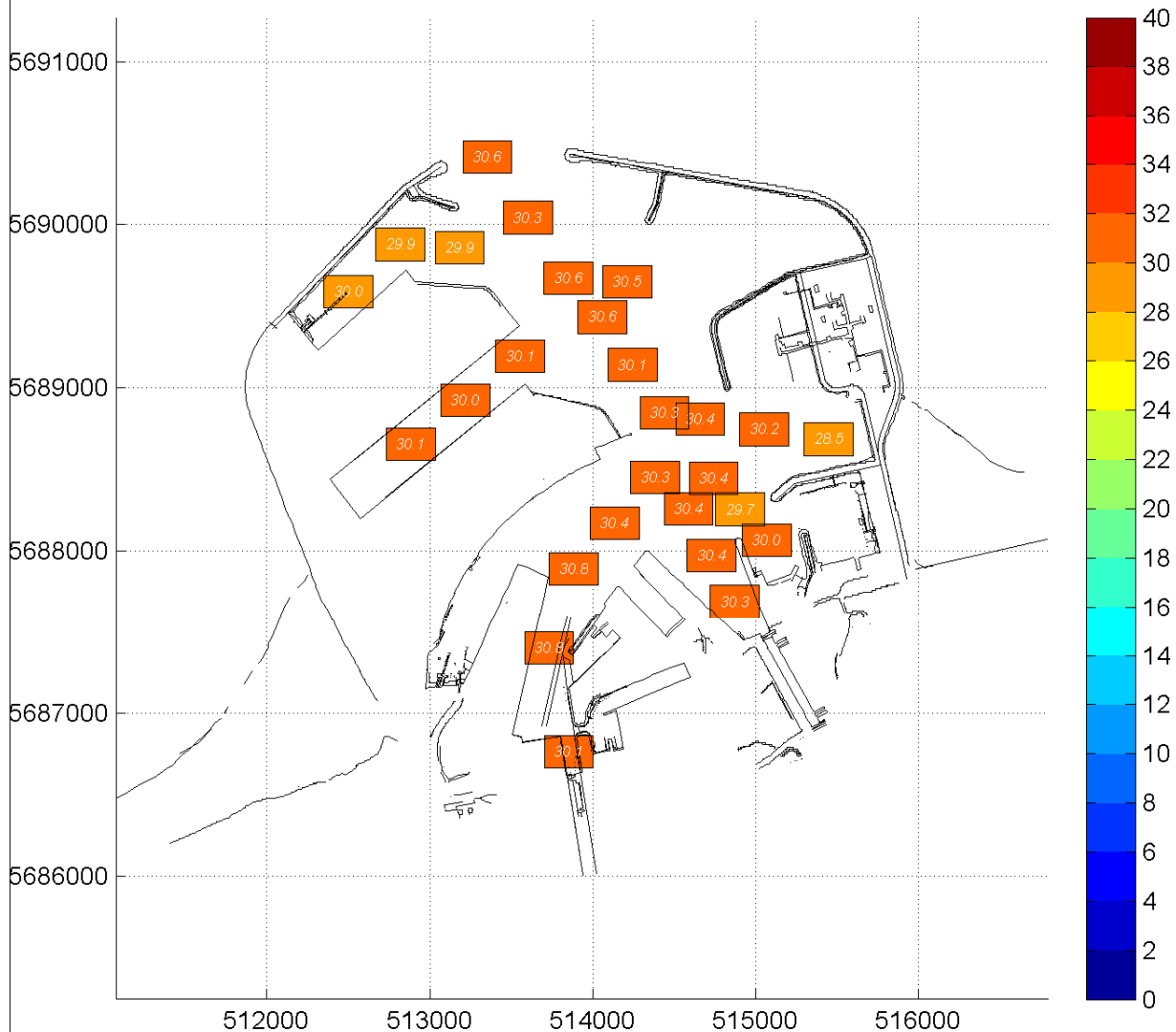
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

05-Dec-2007

08:03 - 10:38

Time after HW

-0:29

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

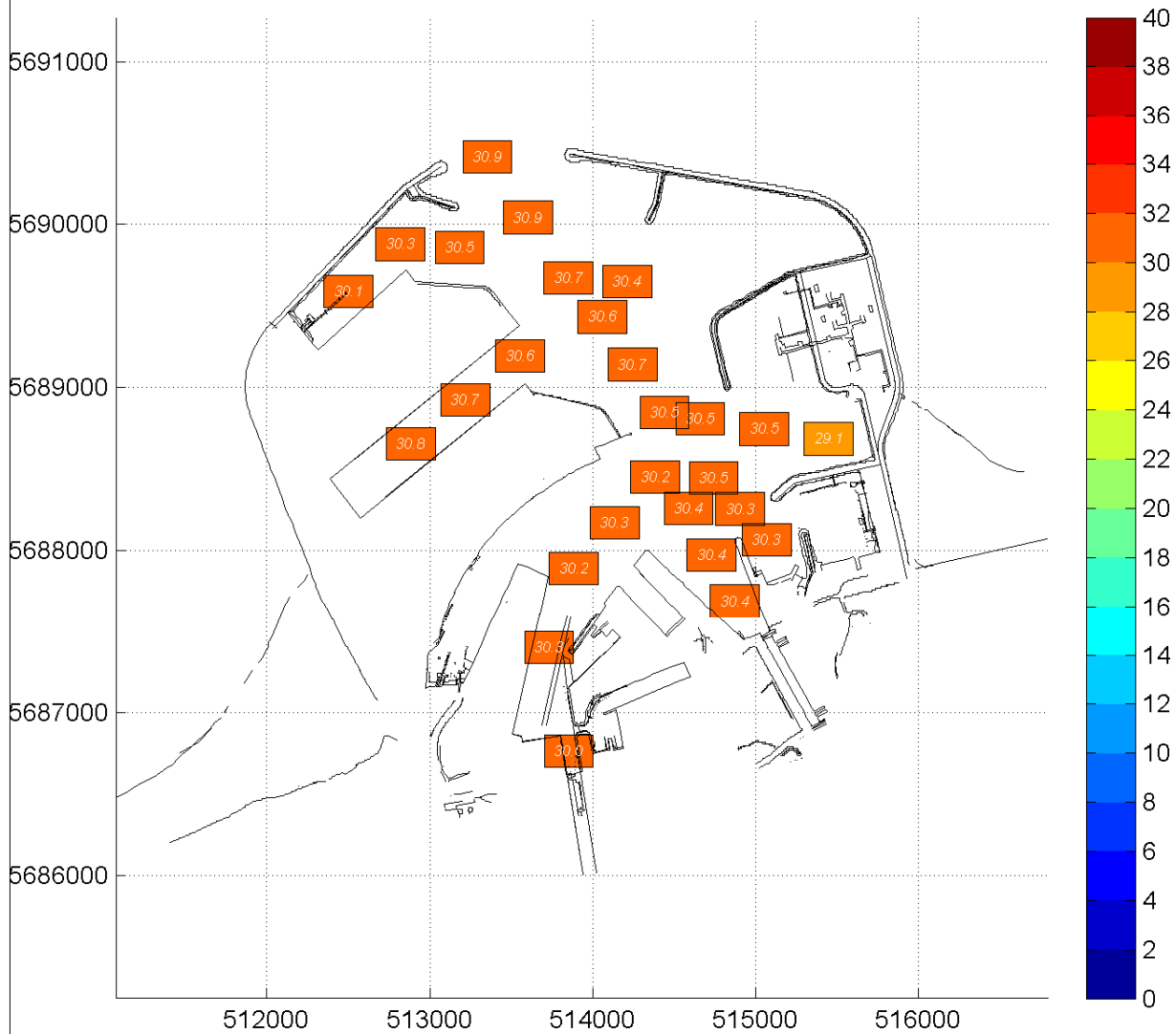
11292 - Zoutmetingen Zeebrugge

Location:

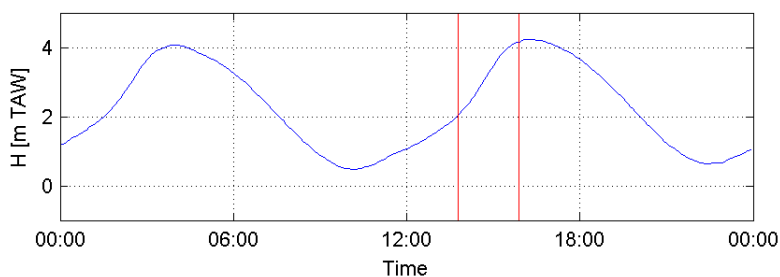
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 14-Dec-2007



HW/LW

03:55: h = 4.07m

16:10: h = 4.23m

10:05: h = 0.48m

Date/time:

14-Dec-2007

13:46 - 15:53

Time after HW

-1:19

I/RA/11292/10.123/BQU

Data Processed by:



In association with:

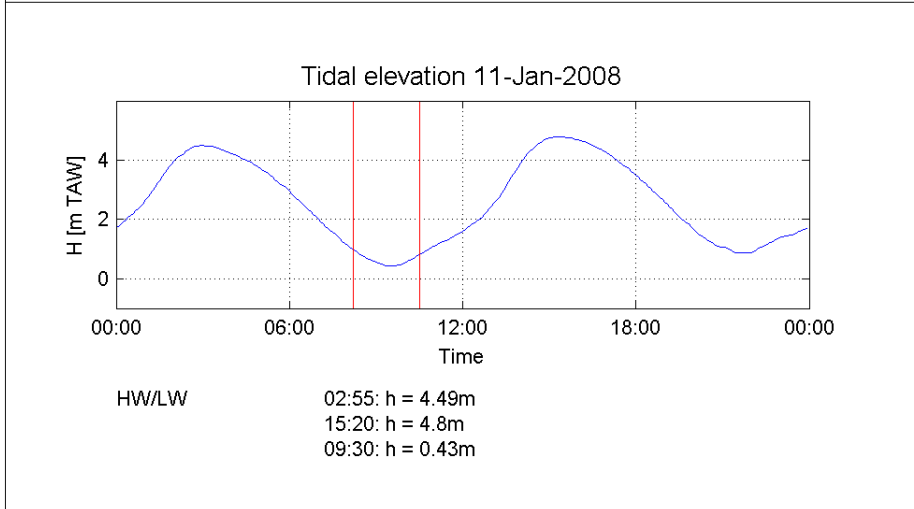
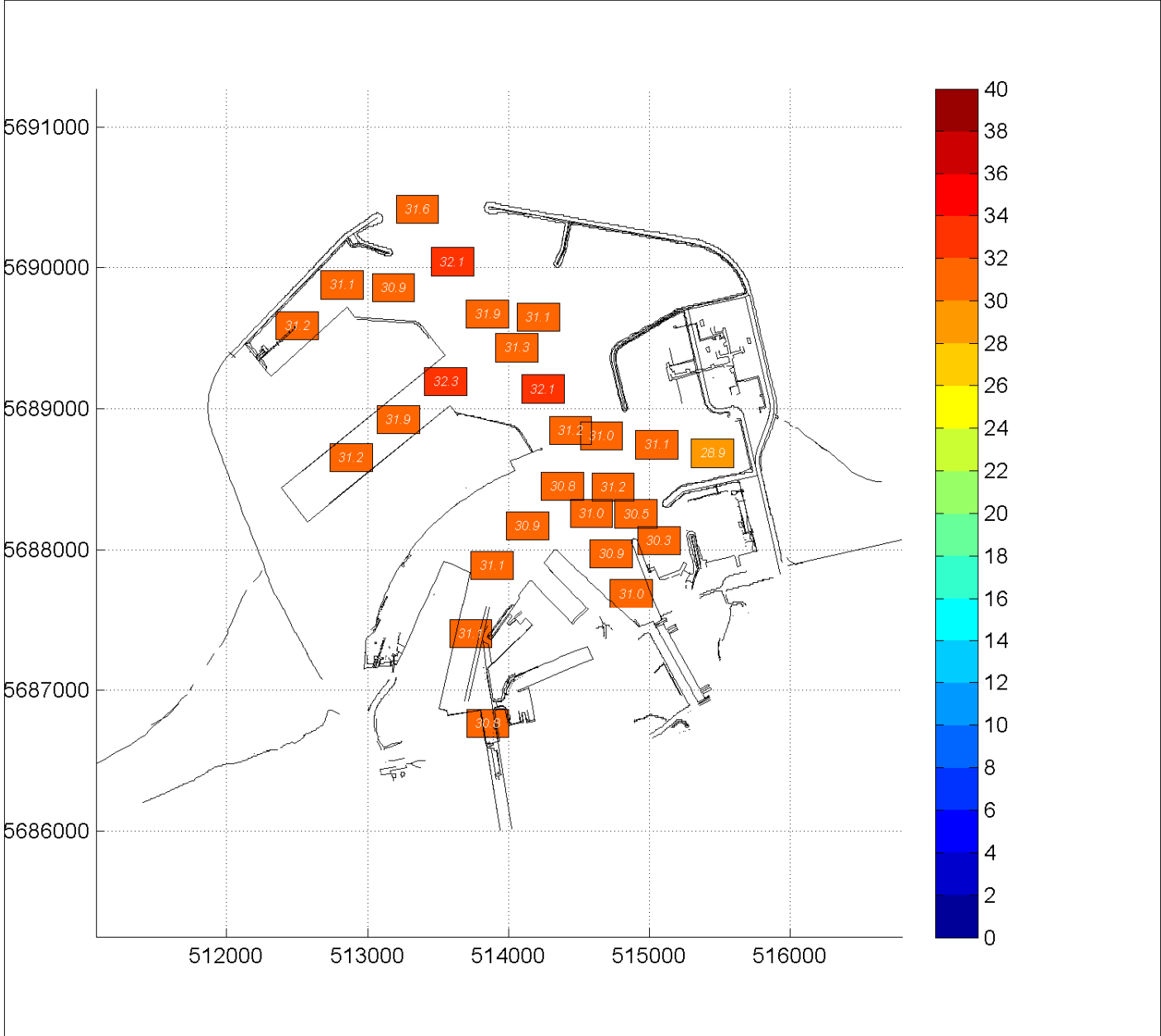


Horizontal salinity distribution in the port of Zeebrugge	
Project: 11292 - Zoutmetingen Zeebrugge	Location: Port of Zeebrugge
Depth: 90 % of the water depth	

Location:

Port of Zeebrugge

90 % of the water depth



**Deltares**  
enabling Delta Life

# Horizontal salinity distribution in the port of Zeebrugge

Project:

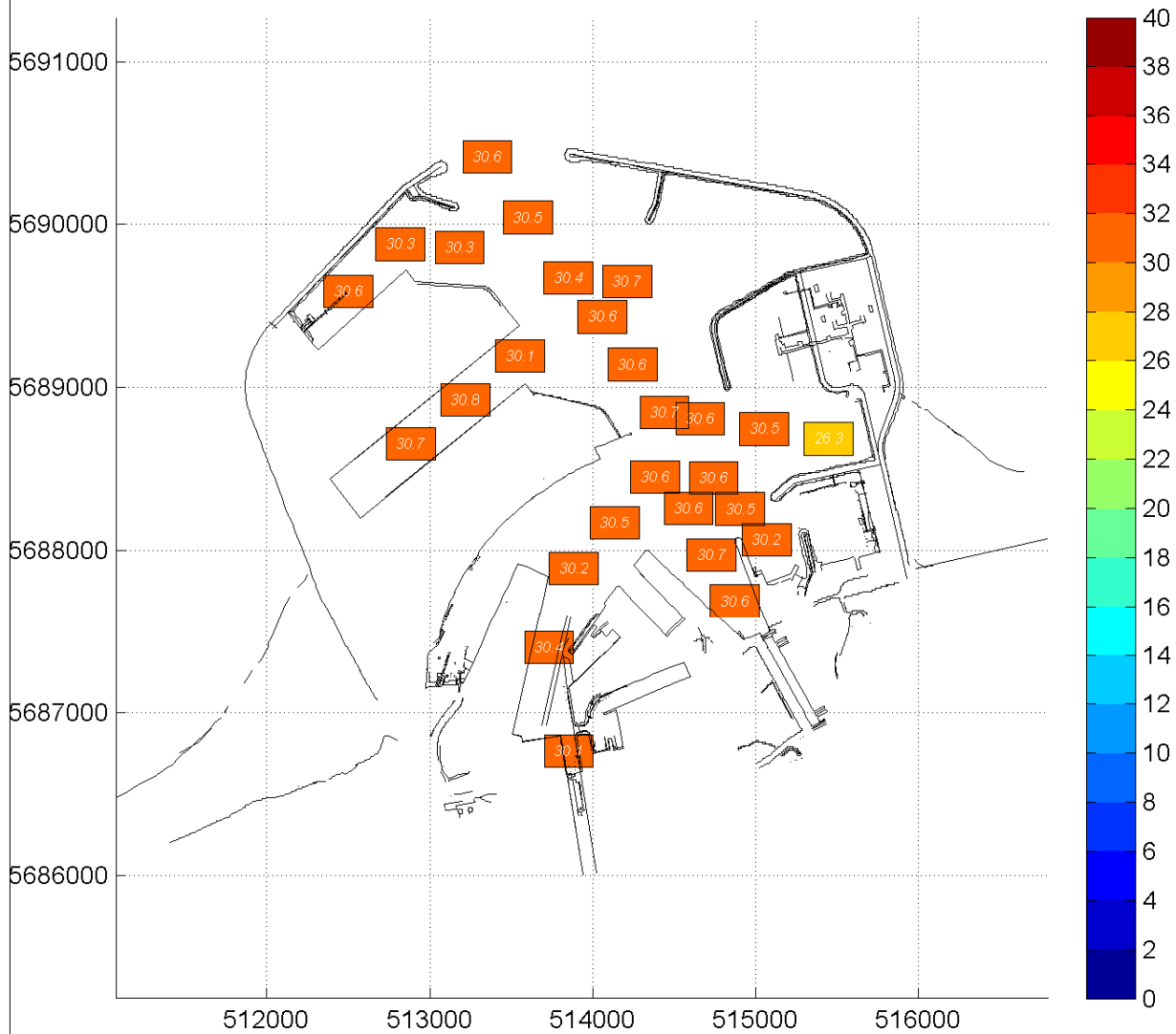
11292 - Zoutmetingen Zeebrugge

Location:

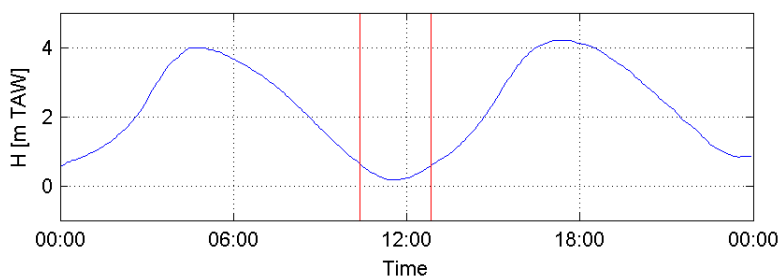
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 14-Jan-2008



HW/LW

04:40: h = 4m  
17:20: h = 4.21m  
11:25: h = 0.17m

Date/time:

14-Jan-2008

10:23 - 12:49

Time after HW

-5:43

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

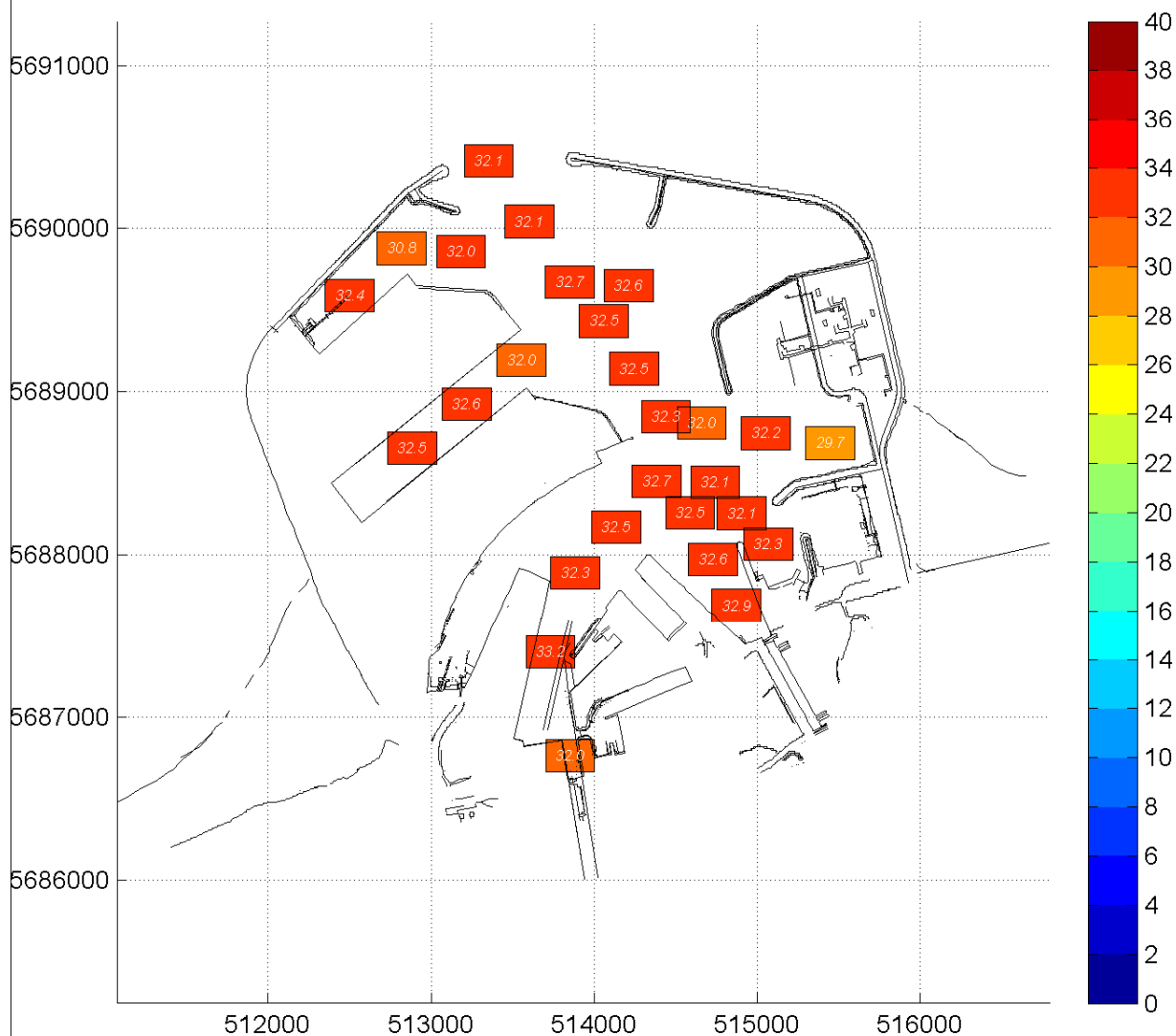
11292 - Zoutmetingen Zeebrugge

Location:

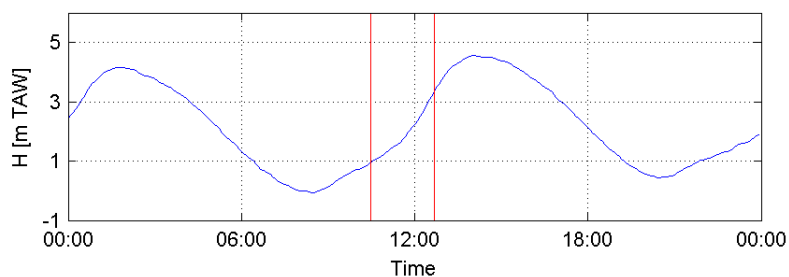
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 23-Jan-2008



HW/LW

01:45: h = 4.17m  
14:00: h = 4.55m  
08:25: h = -0.06m

Date/time:

23-Jan-2008

10:28 - 12:41

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

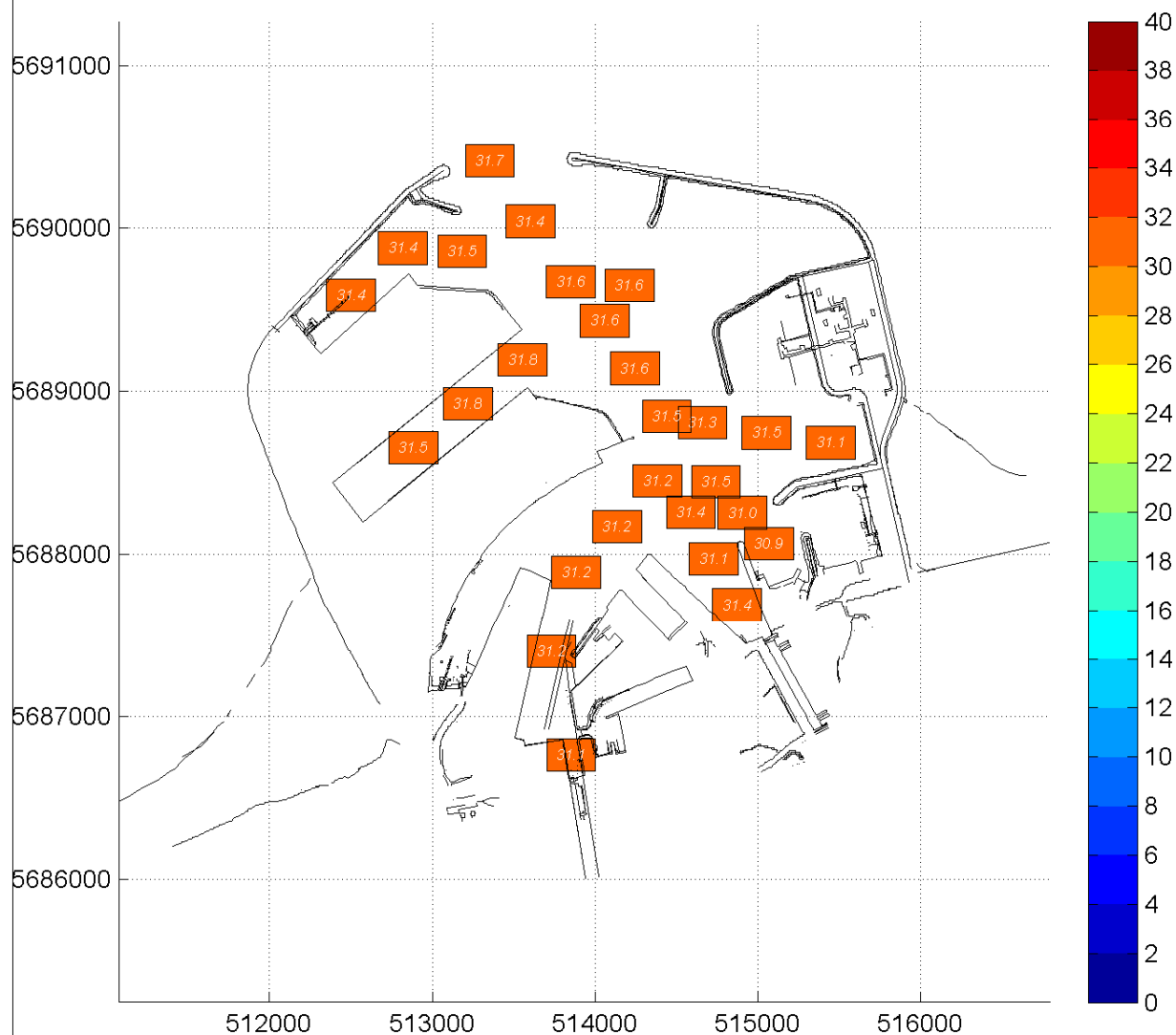
11292 - Zoutmetingen Zeebrugge

Location:

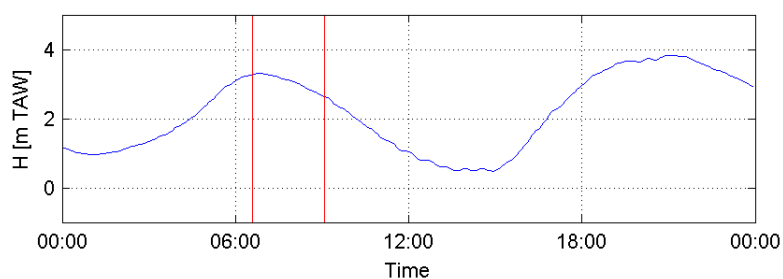
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 31-Jan-2008



HW/LW

06:45: h = 3.31m  
19:45: h = 3.67m  
13:40: h = 0.5m

Date/time:

31-Jan-2008

06:36 - 09:04

Time after HW

1:05

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



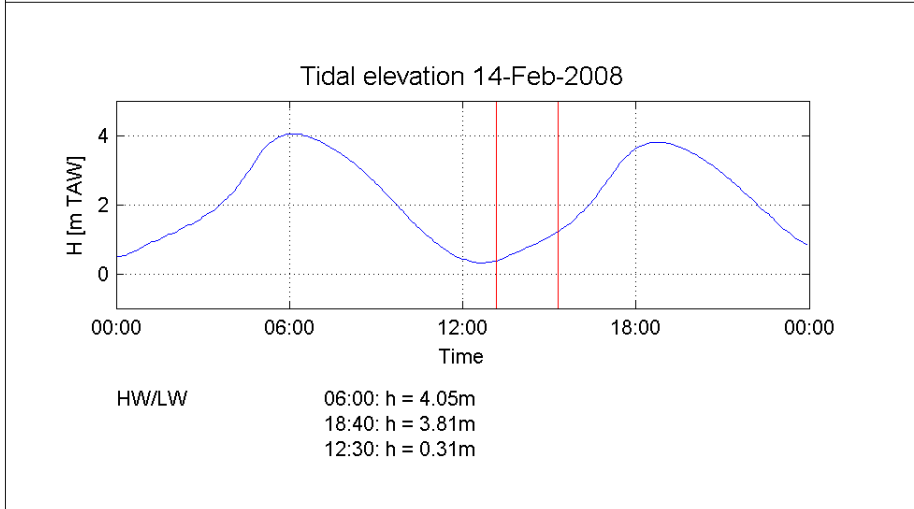
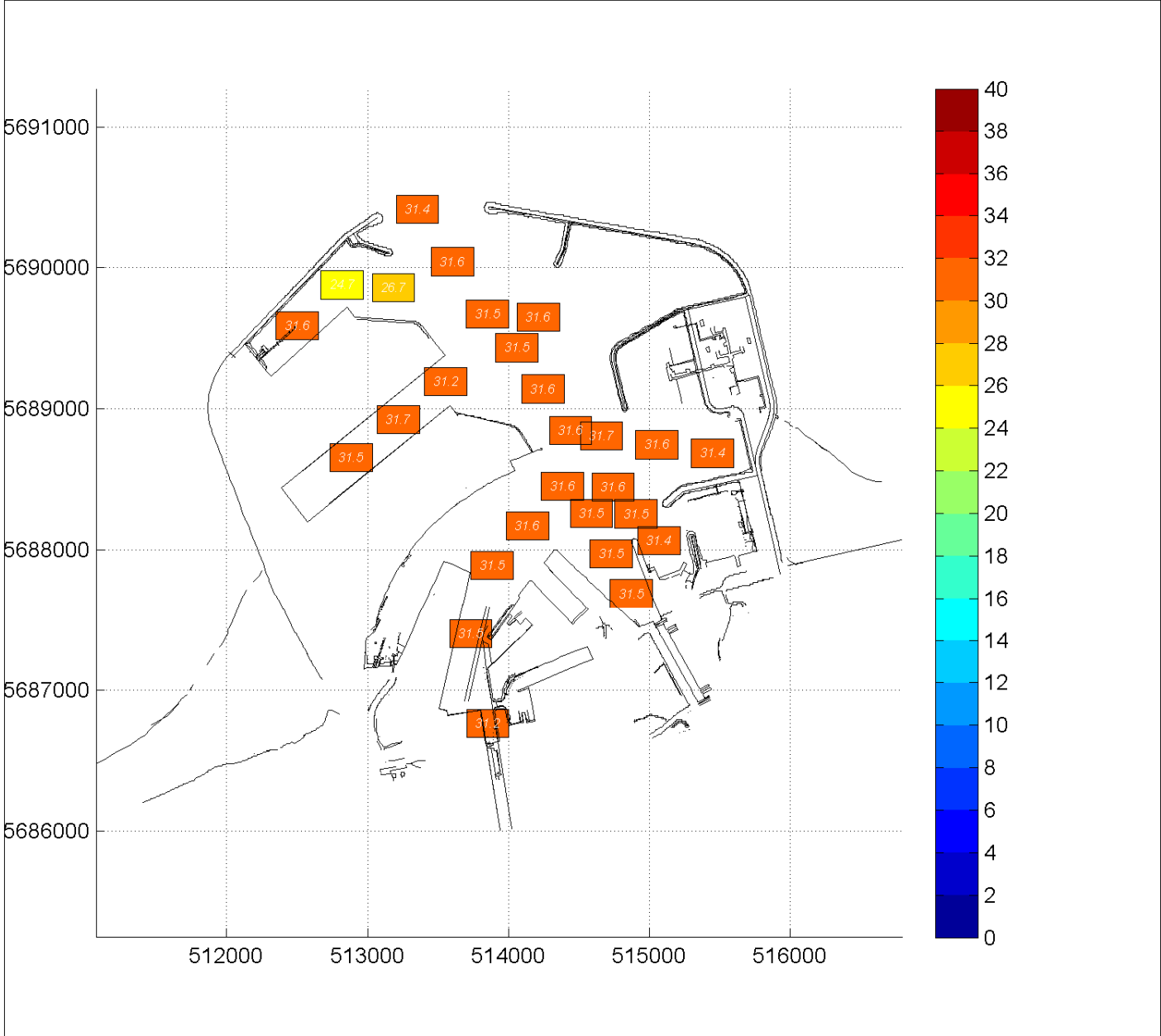


Horizontal salinity distribution in the port of Zeebrugge	
Project: 11292 - Zoutmetingen Zeebrugge	Location: Port of Zeebrugge
Depth: 90 % of the water depth	

Location:

Port of Zeebrugge

90 % of the water depth



14-Feb-2008

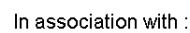
13:09 - 15:18

Time after HW

-4:25

I/RA/11292/10.123/BQU

Data Processed by:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

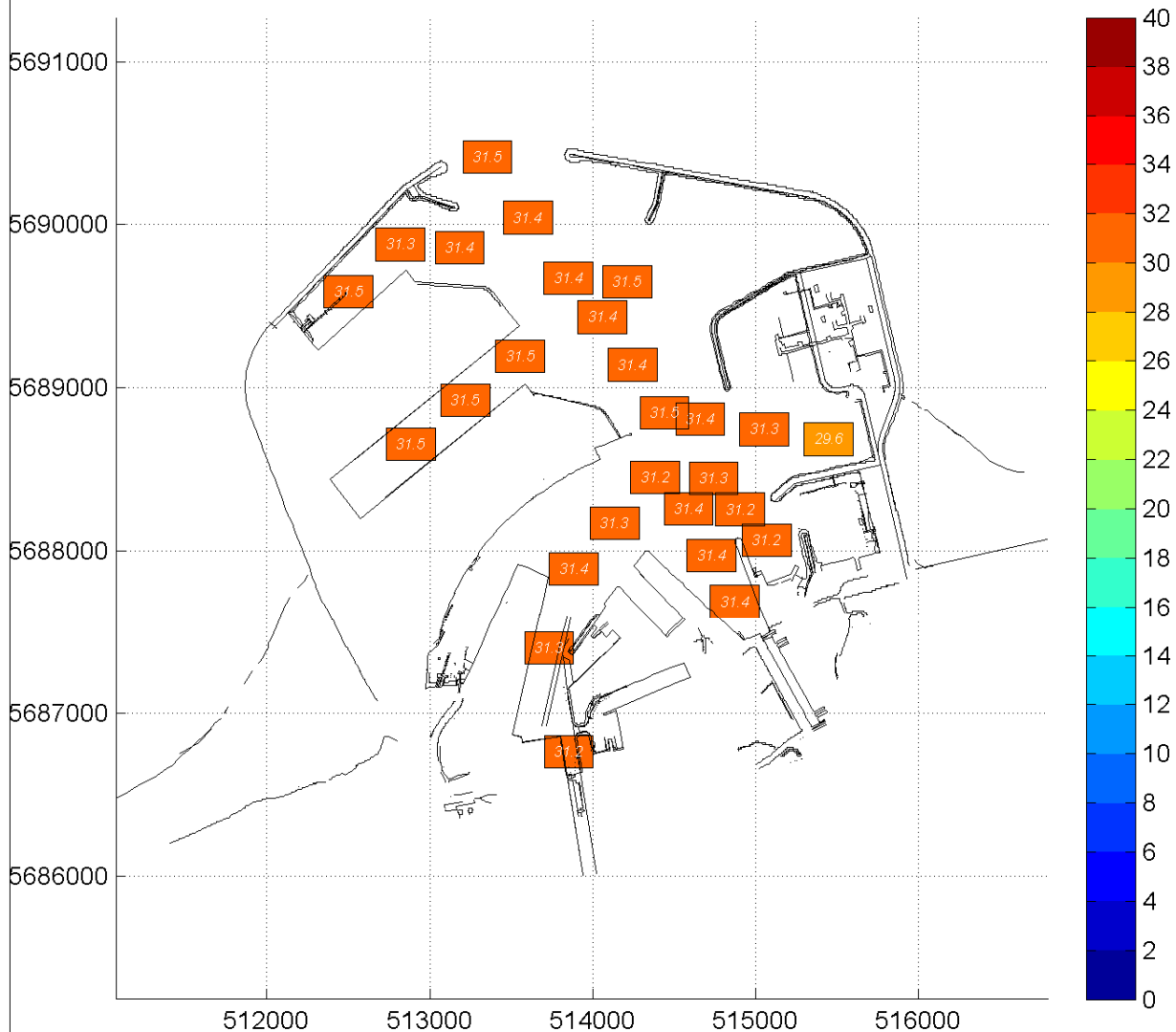
11292 - Zoutmetingen Zeebrugge

Location:

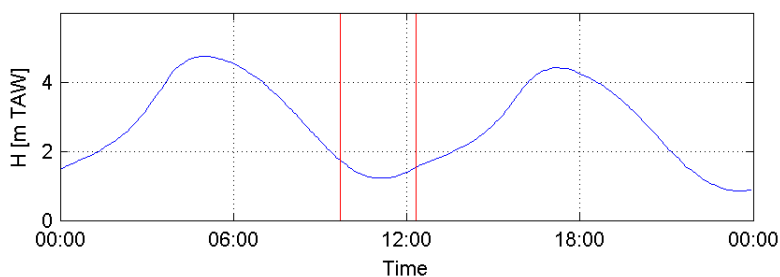
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 27-Feb-2008



HW/LW

04:50: h = 4.74m

17:10: h = 4.43m

10:55: h = 1.22m

Date/time:

27-Feb-2008

09:42 - 12:19

Time after HW

-6:09

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

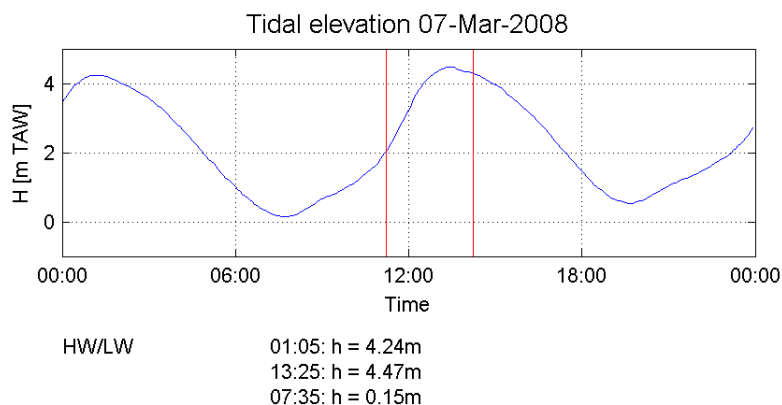
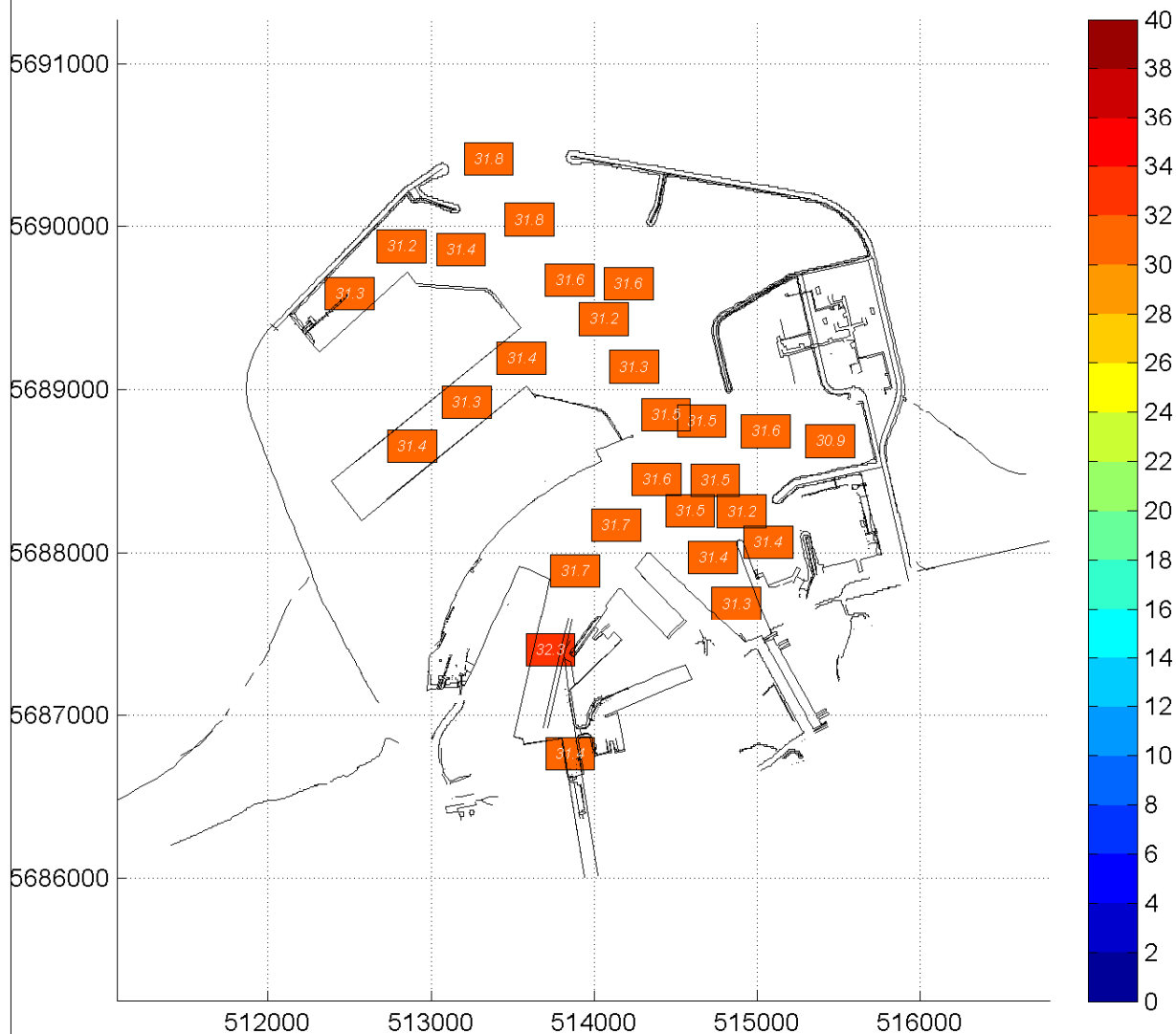
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

07-Mar-2008

11:13 - 14:13

Time after HW

-0:41

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

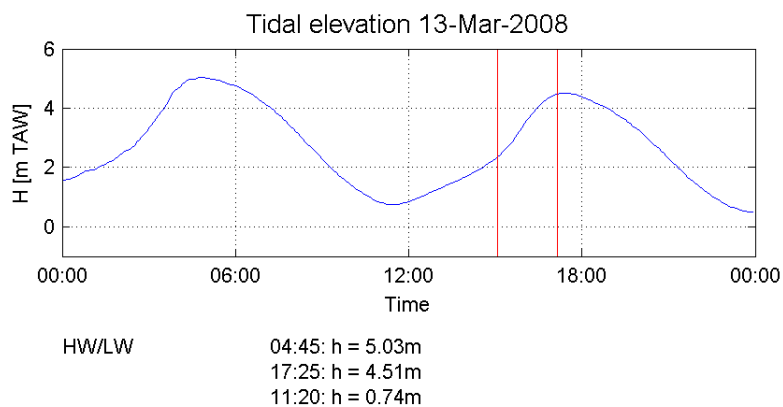
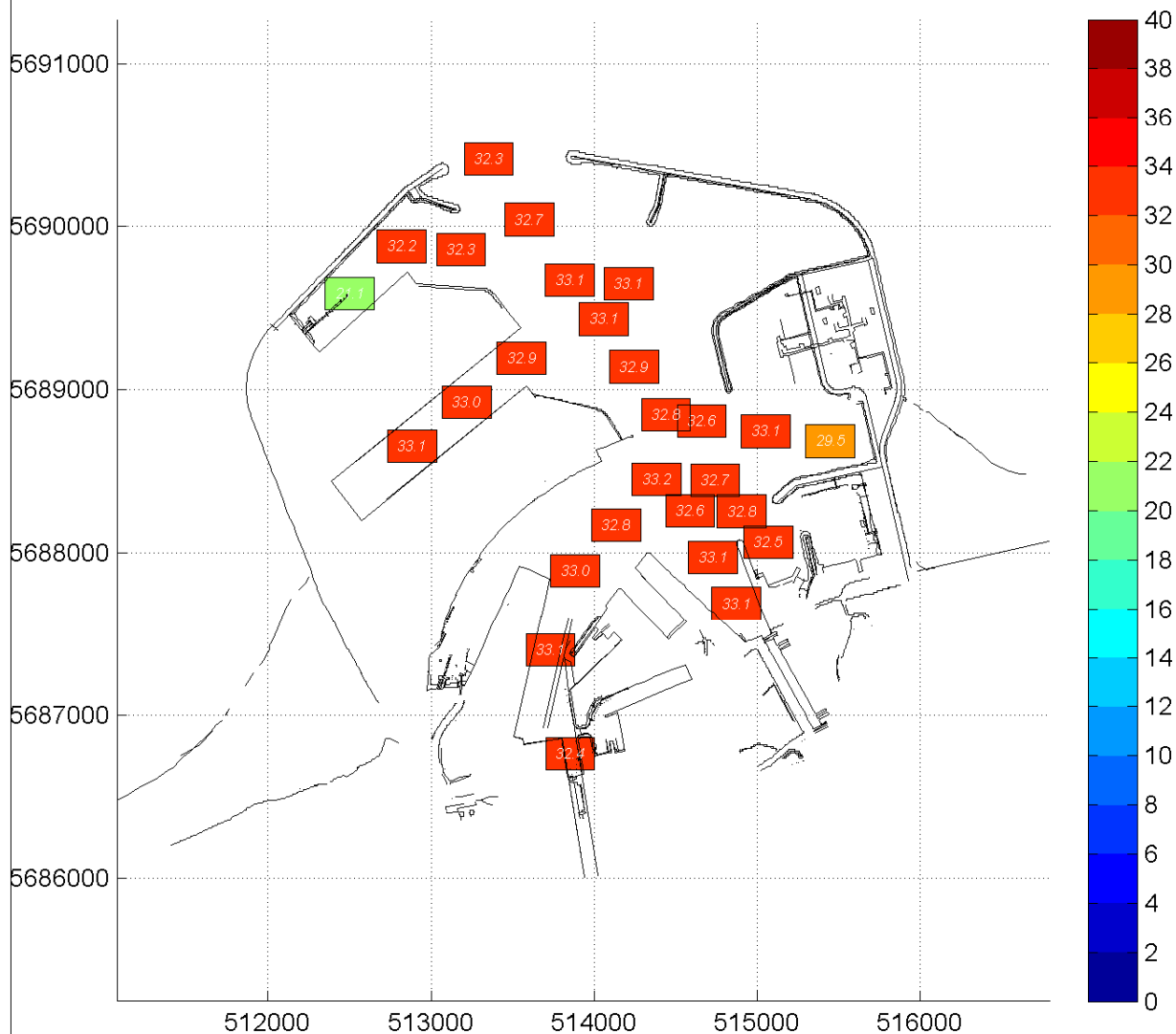
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

13-Mar-2008

15:05 - 17:08

Time after HW

-1:18

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

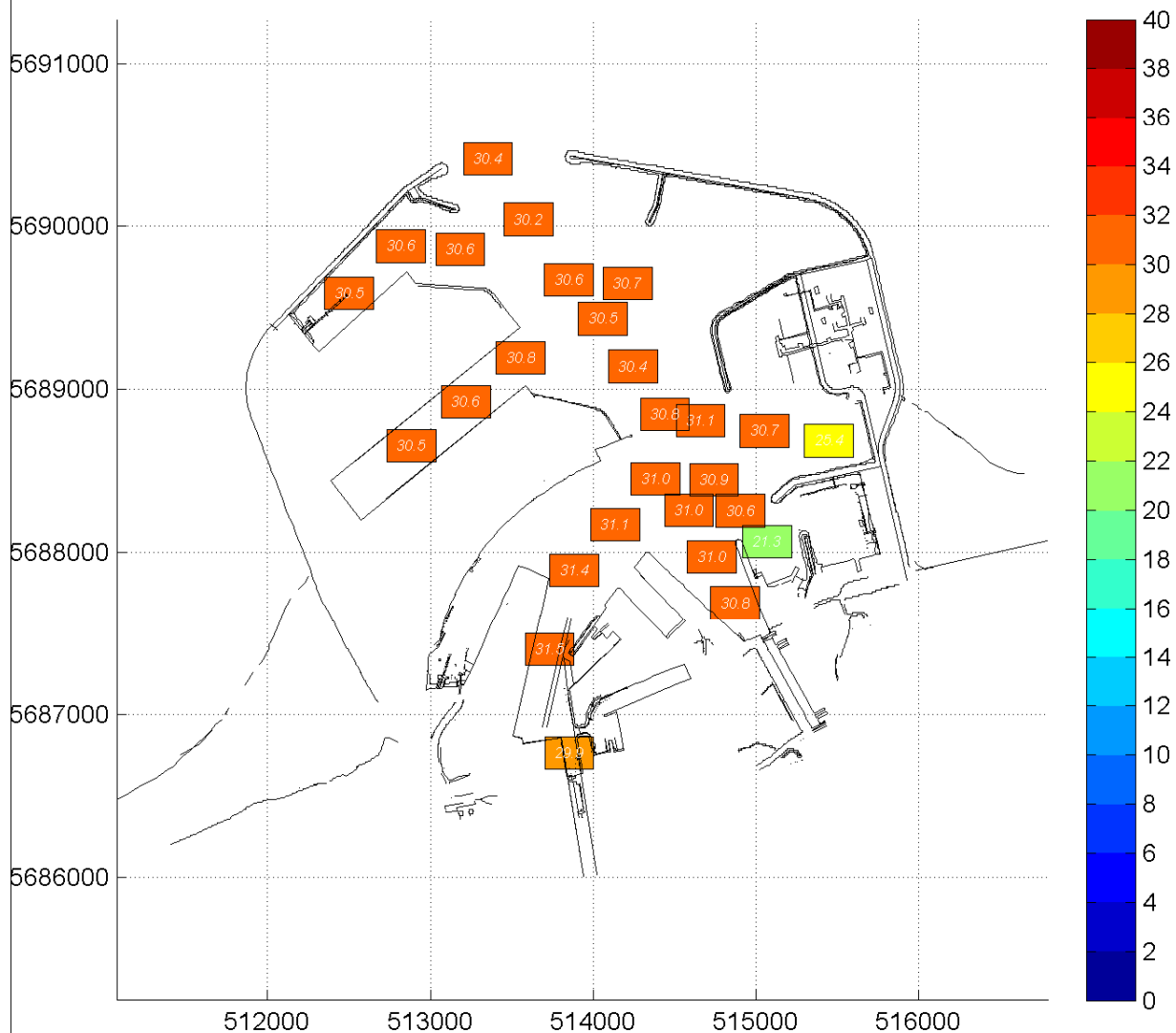
11292 - Zoutmetingen Zeebrugge

Location:

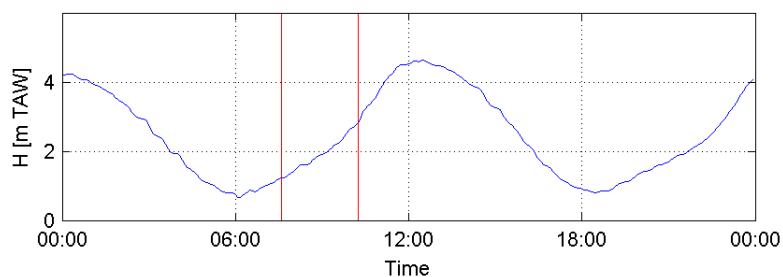
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 19-Mar-2008



HW/LW

12:10: h = 4.61m

00:40: h = NaNm

18:25: h = 0.81m

Date/time:

19-Mar-2008

07:35 - 10:15

Time after HW

-3:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

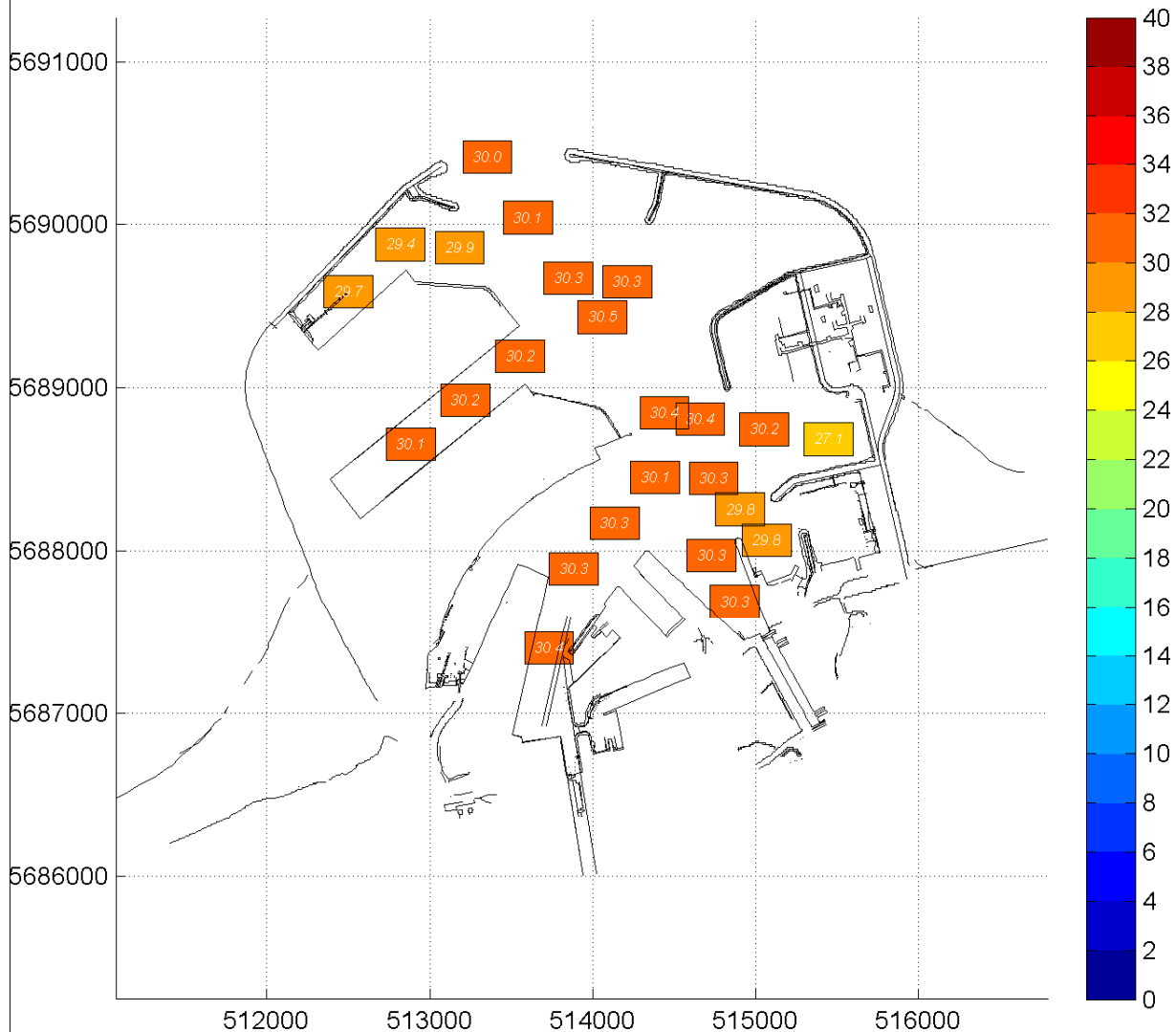
11292 - Zoutmetingen Zeebrugge

Location:

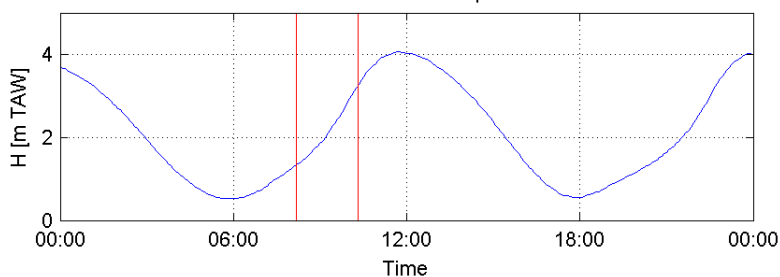
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 03-Apr-2008



HW/LW

11:40: h = 4.06m

23:50: h = 4.01m

17:50: h = 0.55m

Date/time:

03-Apr-2008

08:09 - 10:19

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

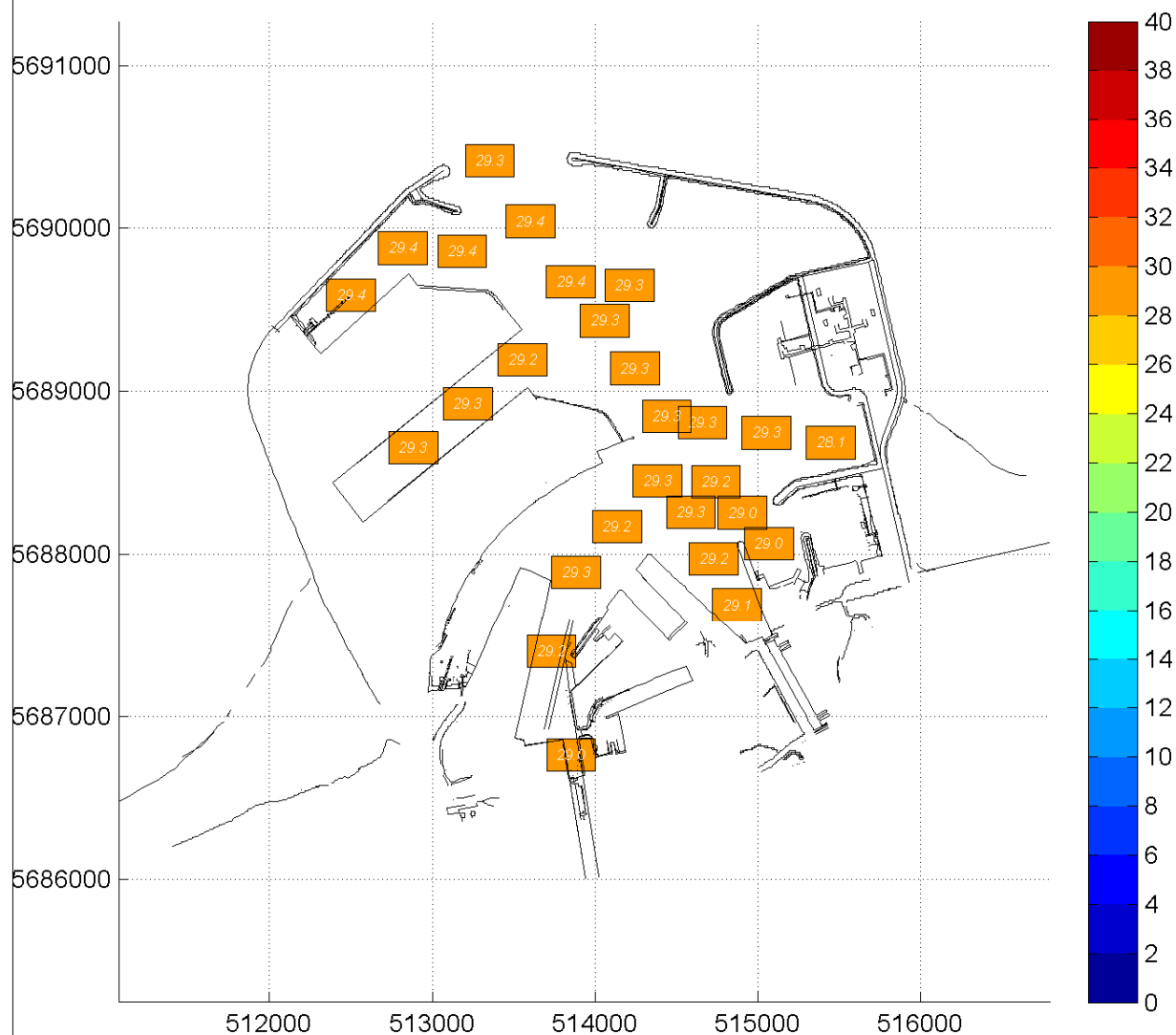
11292 - Zoutmetingen Zeebrugge

Location:

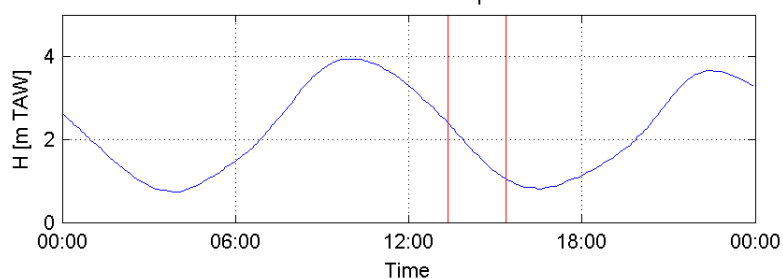
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 15-Apr-2008



HW/LW

09:50: h = 3.94m

22:25: h = 3.66m

16:05: h = 0.84m

Date/time:

15-Apr-2008

13:21 - 15:21

Time after HW

4:31

I/RA/11292/10.123/BQU

Data Processed by:



In association with:

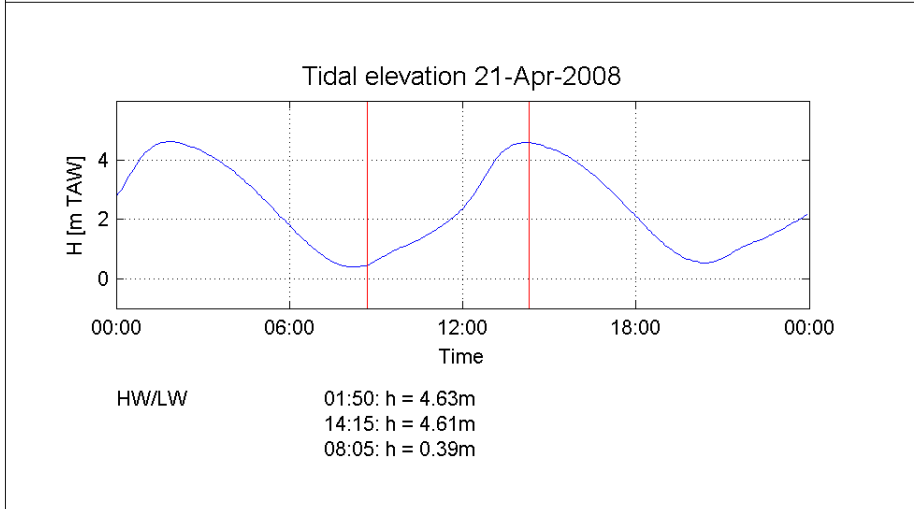
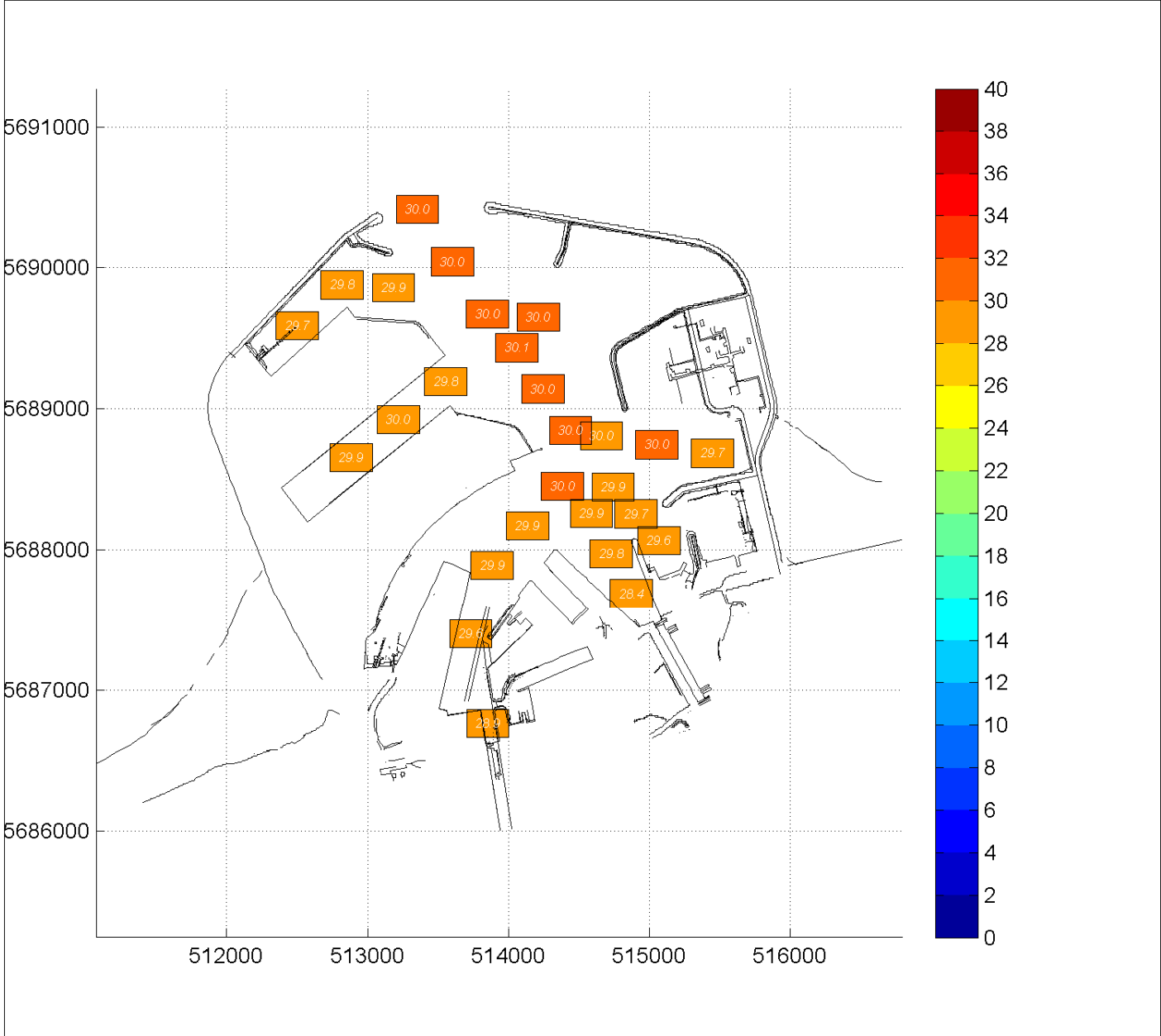


Horizontal salinity distribution in the port of Zeebrugge	
Project: 11292 - Zoutmetingen Zeebrugge	Location: Port of Zeebrugge
Depth: 90 % of the water depth	

Location:

Port of Zeebrugge

90 % of the water depth



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# Horizontal salinity distribution in the port of Zeebrugge

Project:

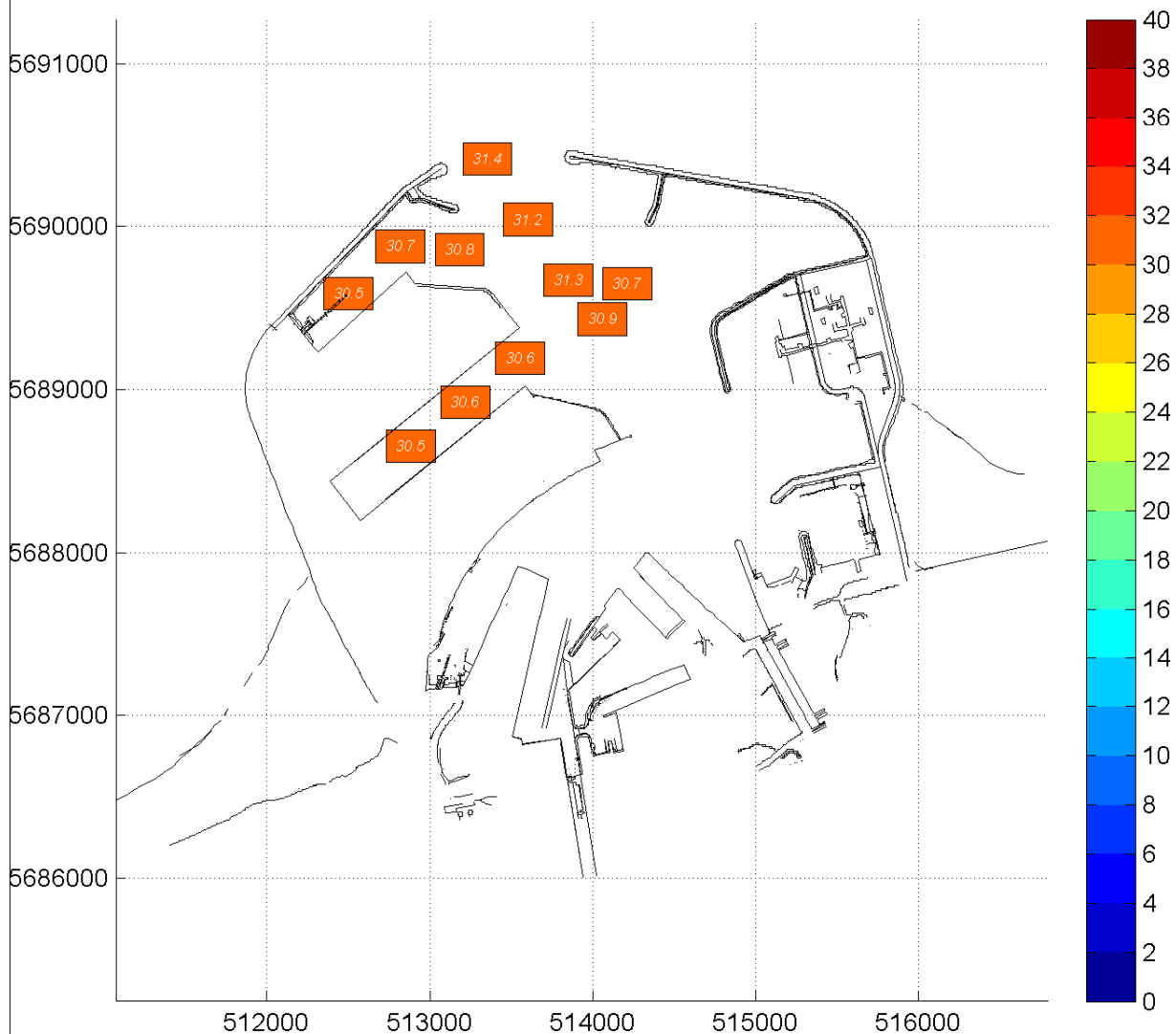
11292 - Zoutmetingen Zeebrugge

Location:

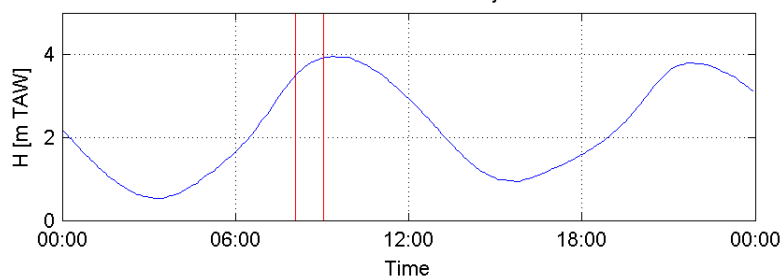
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 14-May-2008



HW/LW

09:20: h = 3.95m

21:40: h = 3.8m

15:45: h = 0.93m

Date/time:

14-May-2008

08:05 - 09:02

Time after HW

-0:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

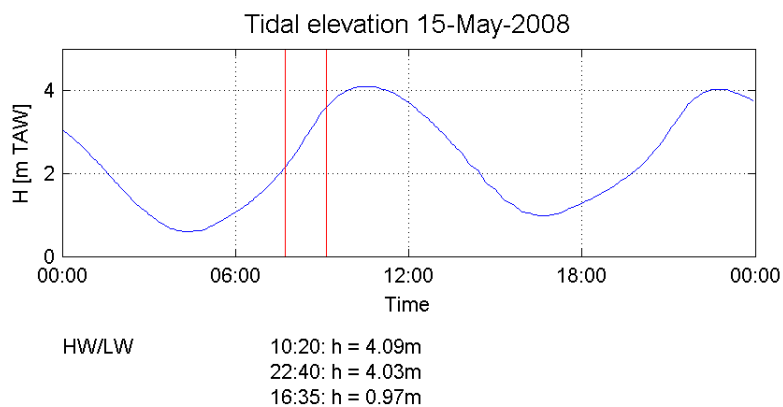
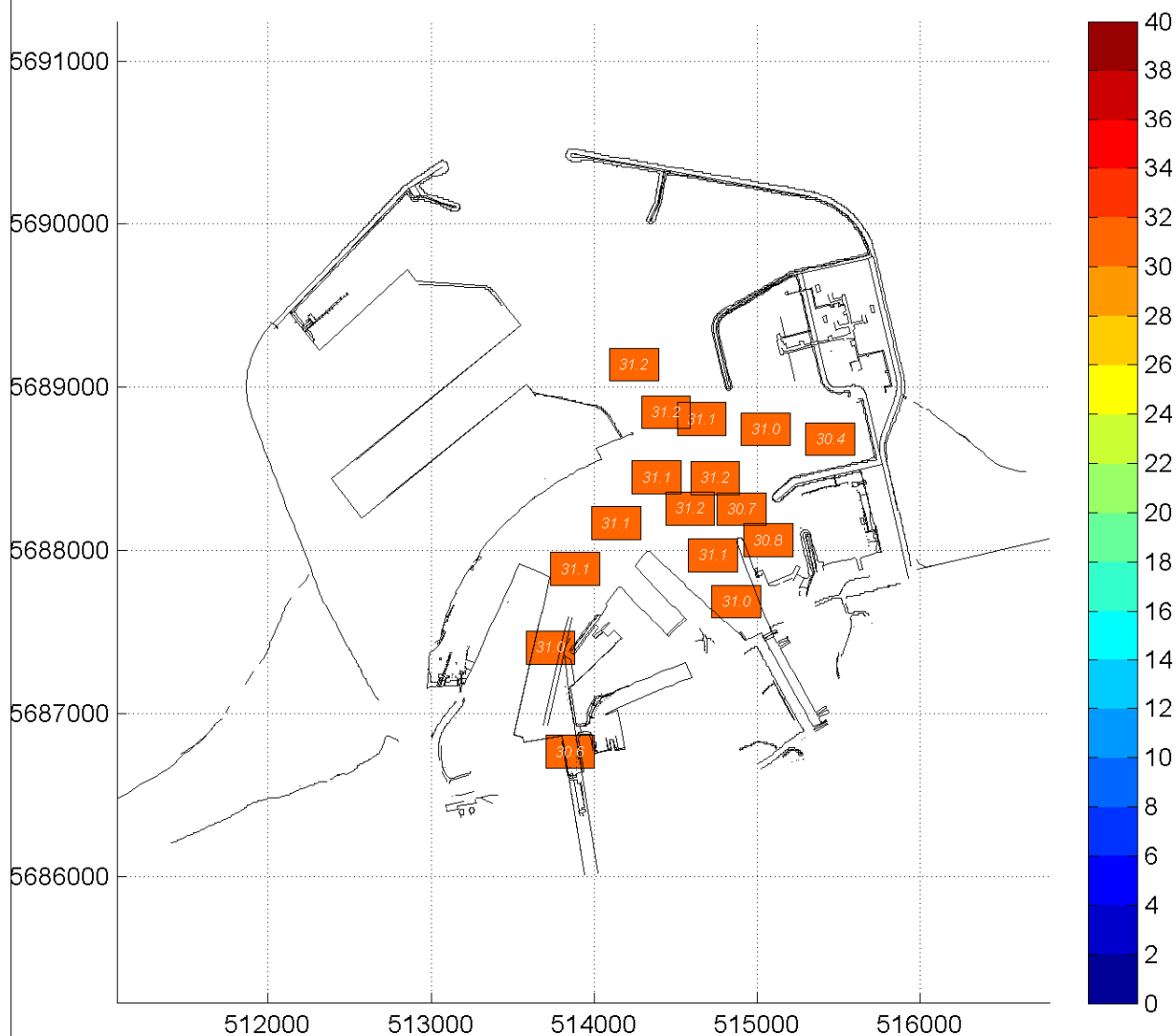
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

15-May-2008

07:43 - 09:08

Time after HW

-1:53

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

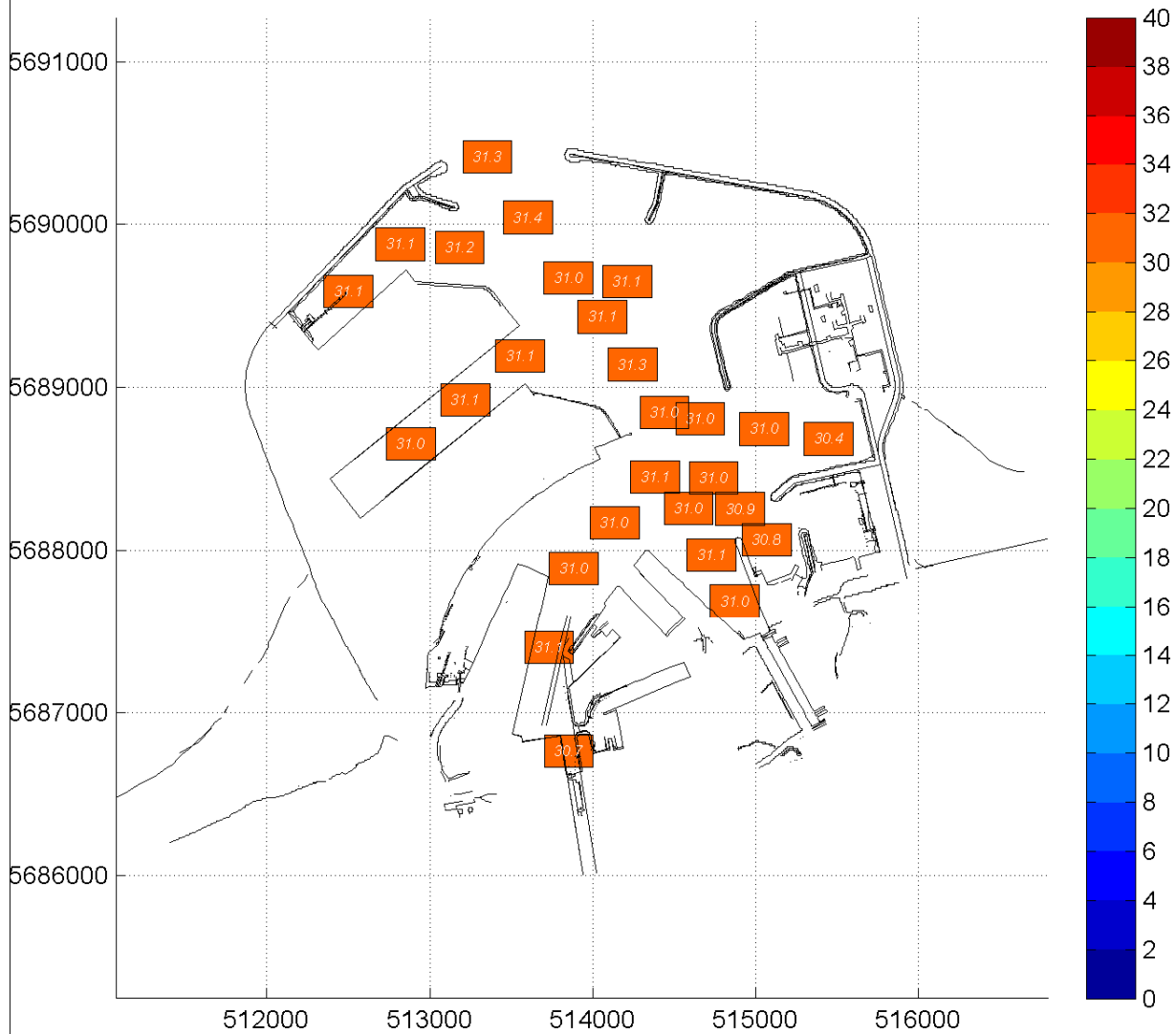
11292 - Zoutmetingen Zeebrugge

Location:

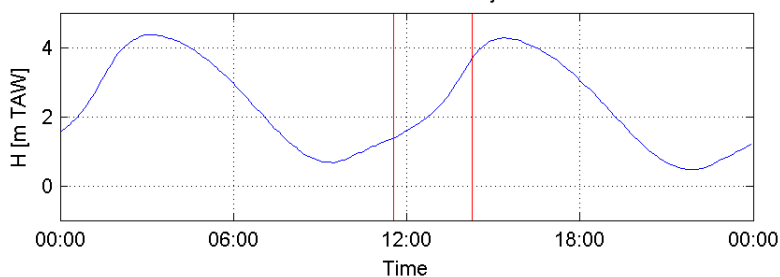
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 23-May-2008



HW/LW

03:00: h = 4.37m

15:20: h = 4.29m

09:25: h = 0.66m

Date/time:

23-May-2008

11:33 - 14:16

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

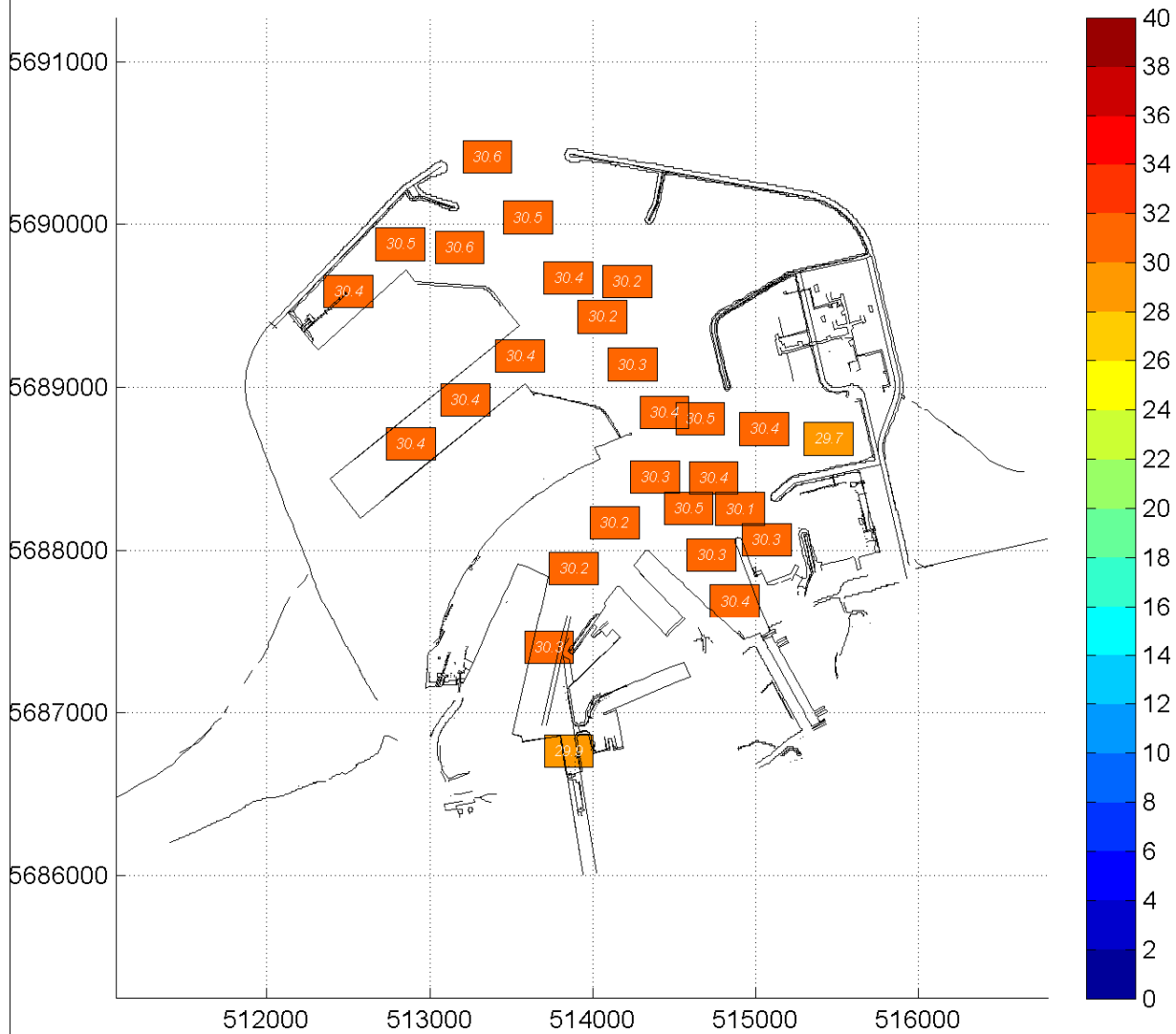
11292 - Zoutmetingen Zeebrugge

Location:

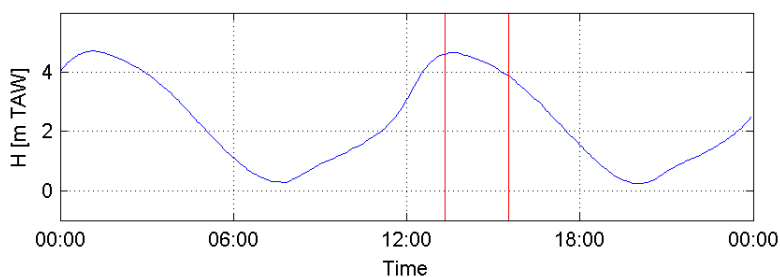
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 04-Jun-2008



HW/LW

01:05: h = 4.72m

13:40: h = 4.67m

07:40: h = 0.29m

Date/time:

04-Jun-2008

13:19 - 15:32

Time after HW

0:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

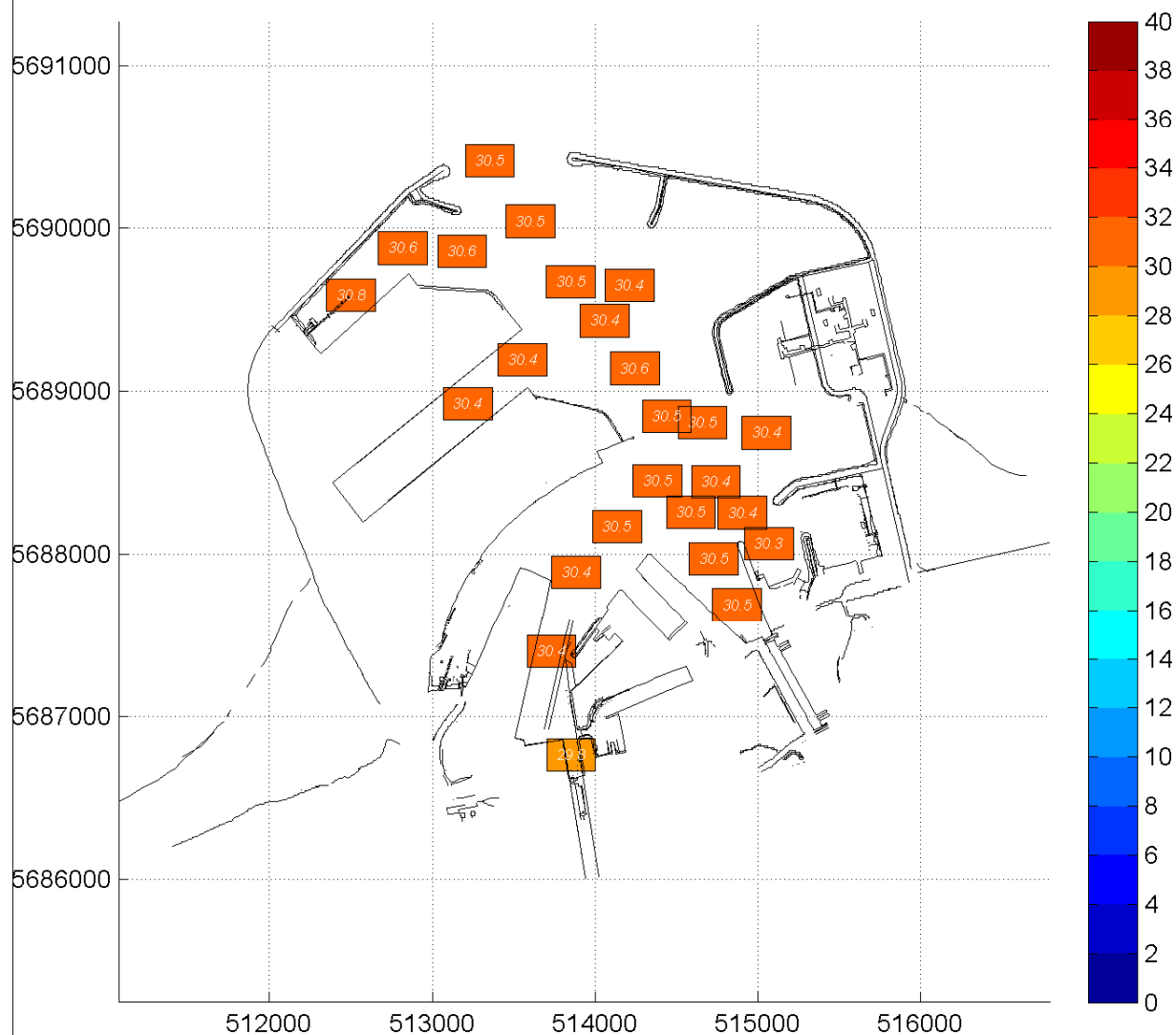
11292 - Zoutmetingen Zeebrugge

Location:

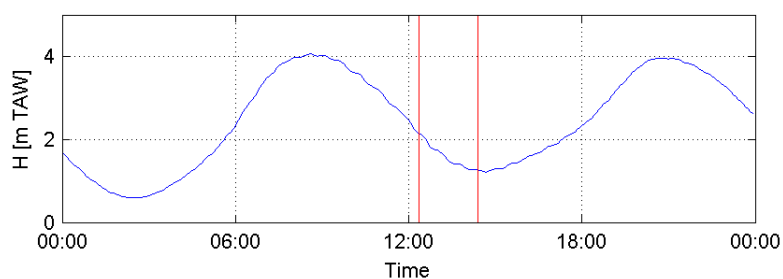
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 12-Jun-2008



HW/LW

08:35: h = 4.06m

20:40: h = 3.96m

14:05: h = 1.27m

Date/time:

12-Jun-2008

12:21 - 14:24

Time after HW

4:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

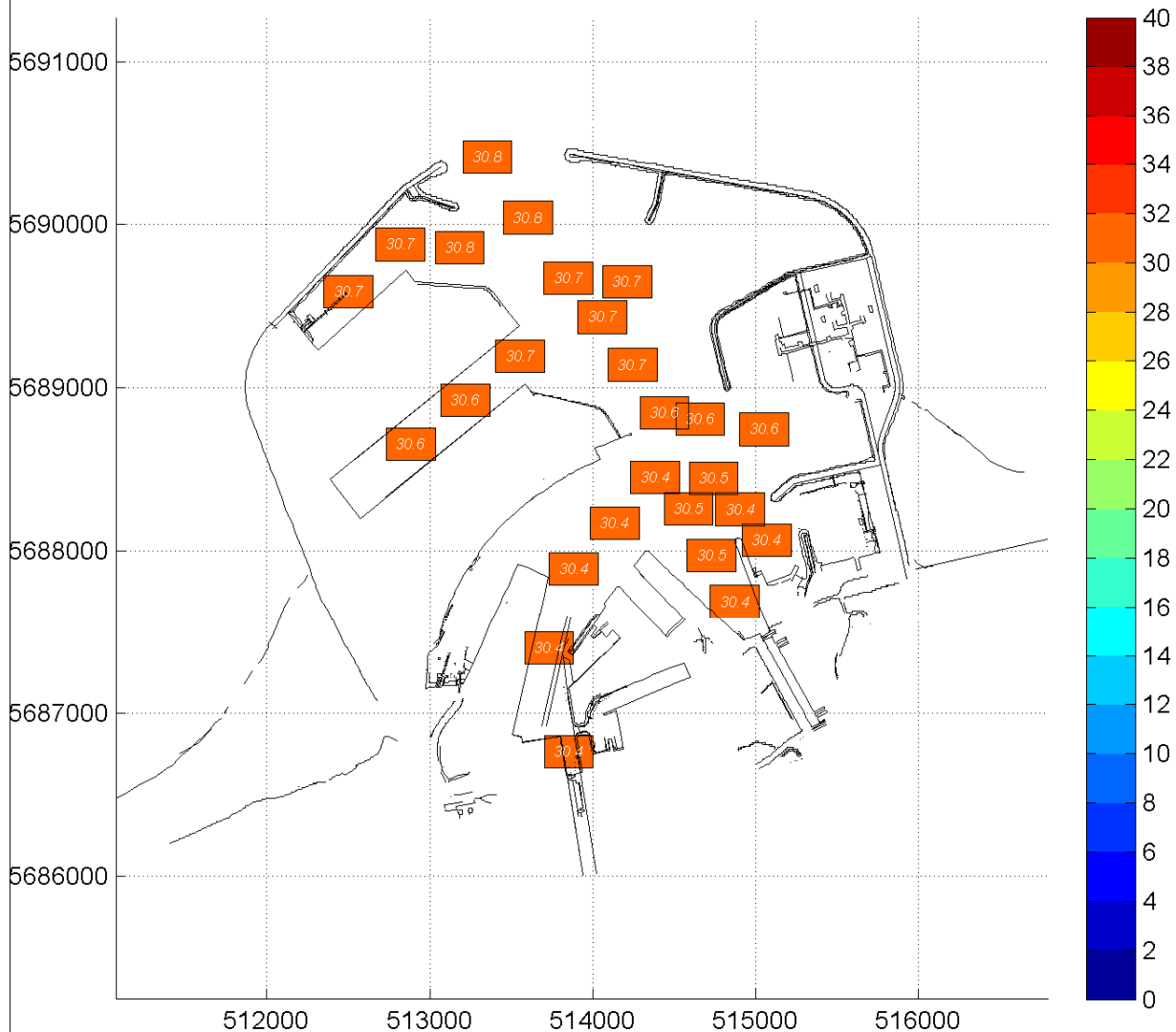
11292 - Zoutmetingen Zeebrugge

Location:

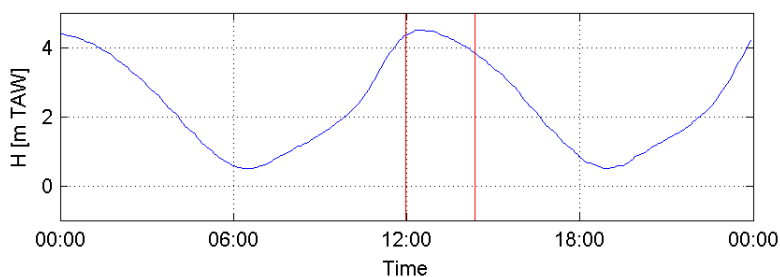
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 02-Jul-2008



HW/LW

12:25: h = 4.5m  
01:00: h = NaNm  
18:55: h = 0.49m

Date/time:

02-Jul-2008

11:57 - 14:21

Time after HW

0:44

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

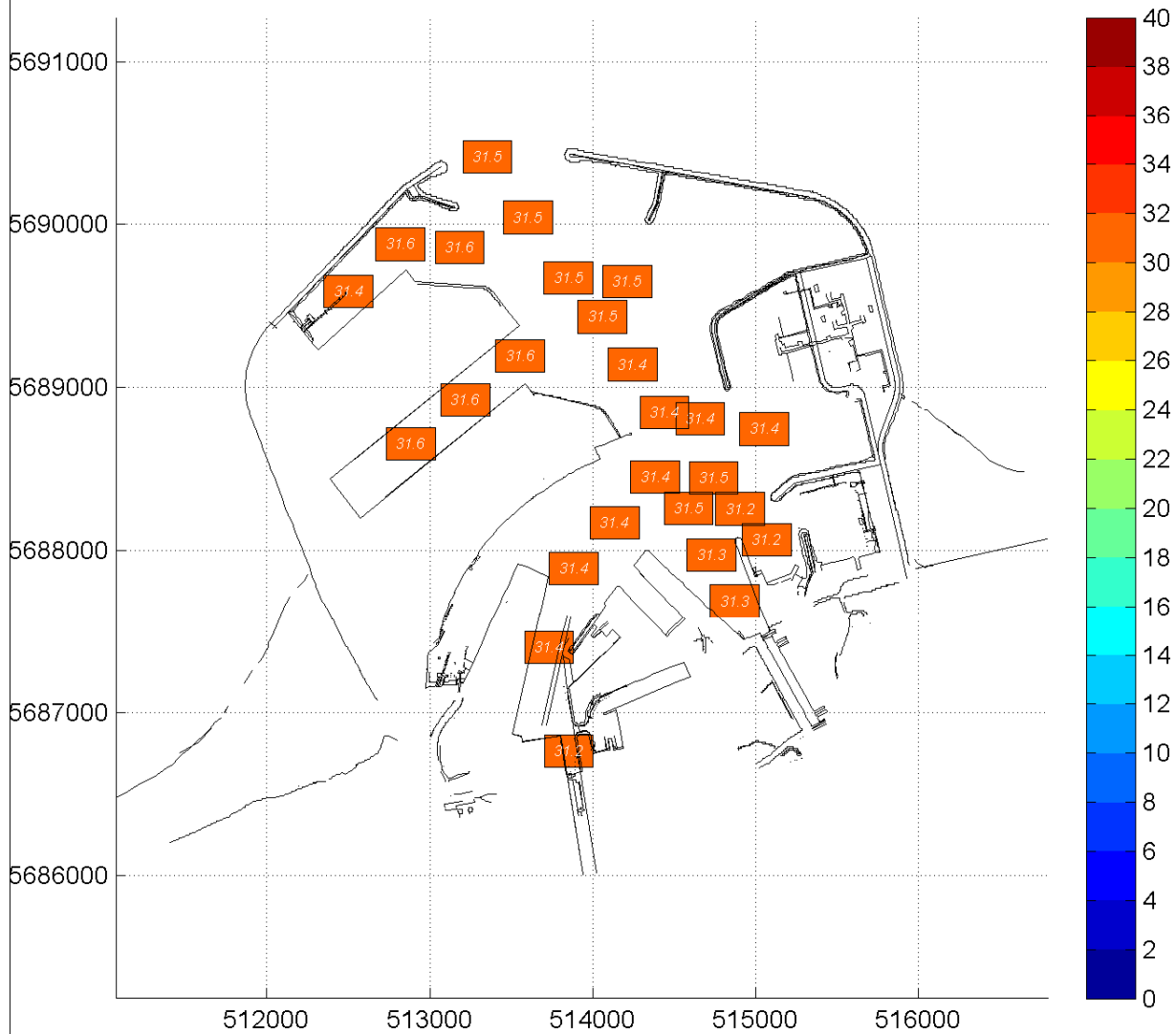
11292 - Zoutmetingen Zeebrugge

Location:

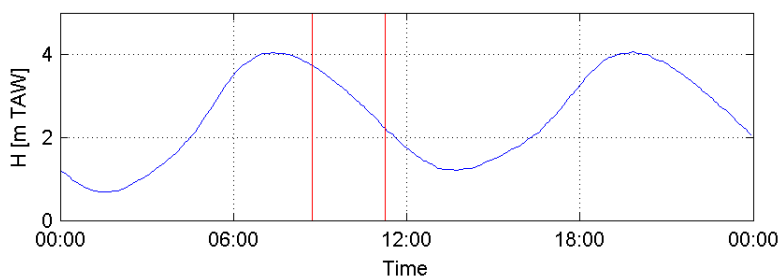
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 11-Jul-2008



HW/LW

07:20: h = 4.04m

19:50: h = 4.06m

13:40: h = 1.21m

Date/time:

11-Jul-2008

08:44 - 11:14

Time after HW

2:39

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

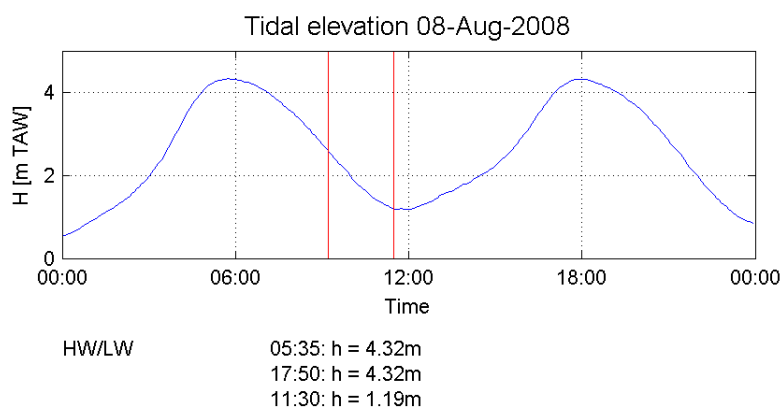
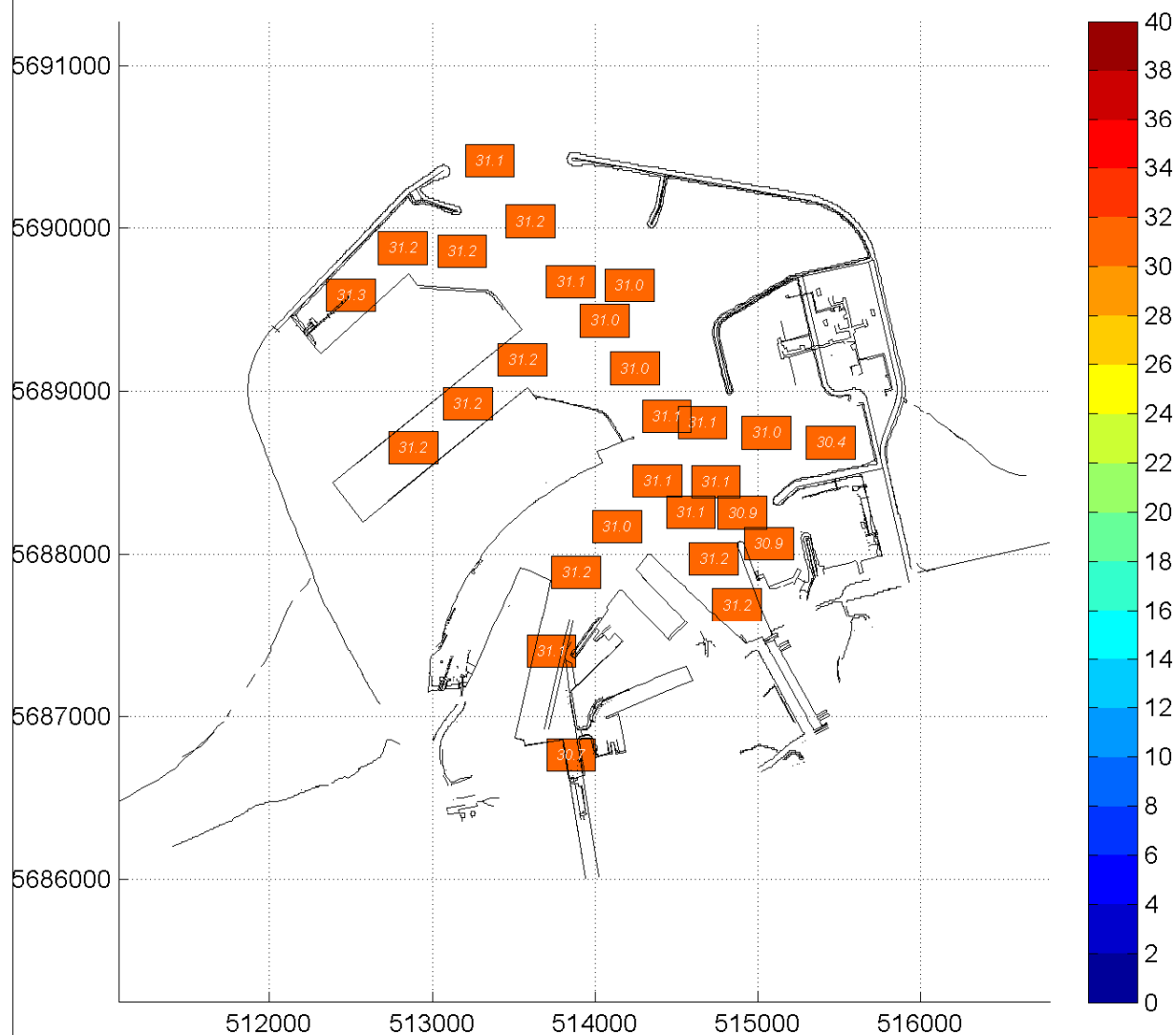
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

90 % of the water depth



Date/time:

08-Aug-2008

09:12 - 11:28

Time after HW

4:45

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

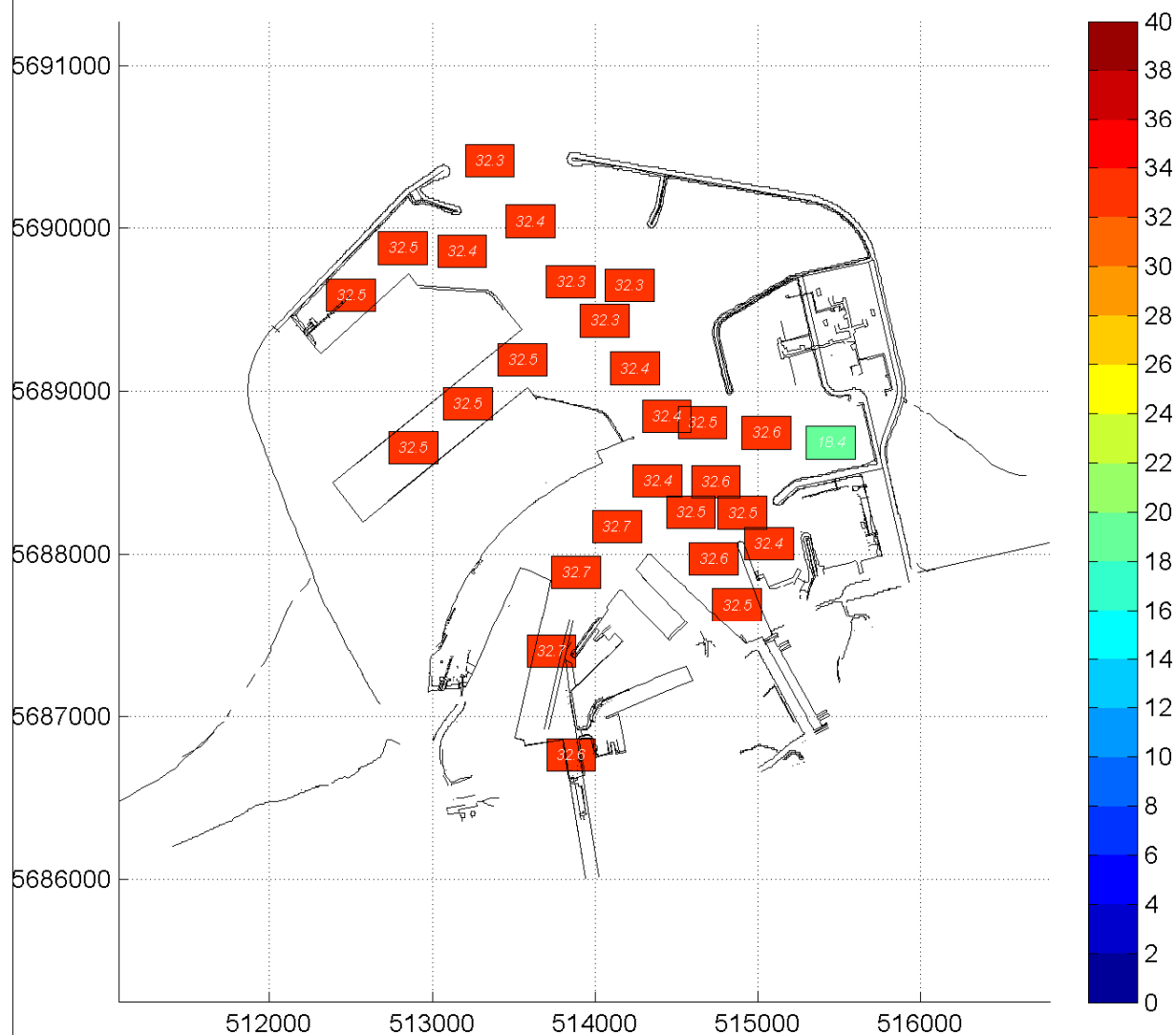
11292 - Zoutmetingen Zeebrugge

Location:

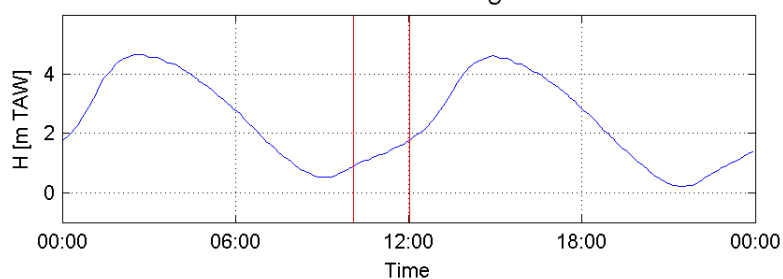
Port of Zeebrugge

Depth:

90 % of the water depth



Tidal elevation 19-Aug-2008



02:40: h = 4.67m  
14:55: h = 4.63m  
08:55: h = 0.53m

Date/time:

19-Aug-2008

10:05 - 12:02

Time after HW

-3:51

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





## **Annex F    Horizontal Salinity distribution in the port of Zeebrugge near the water surface**



# Horizontal salinity distribution in the port of Zeebrugge

Project:

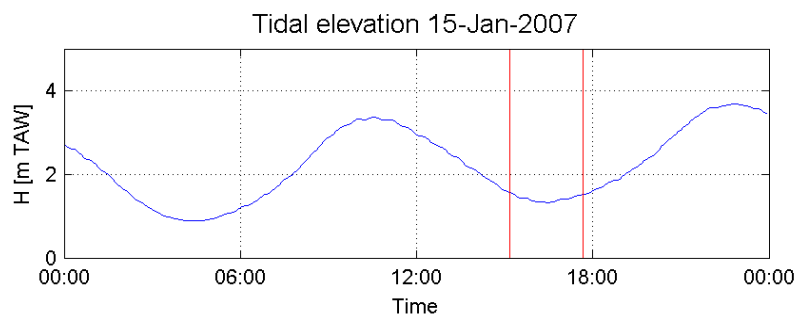
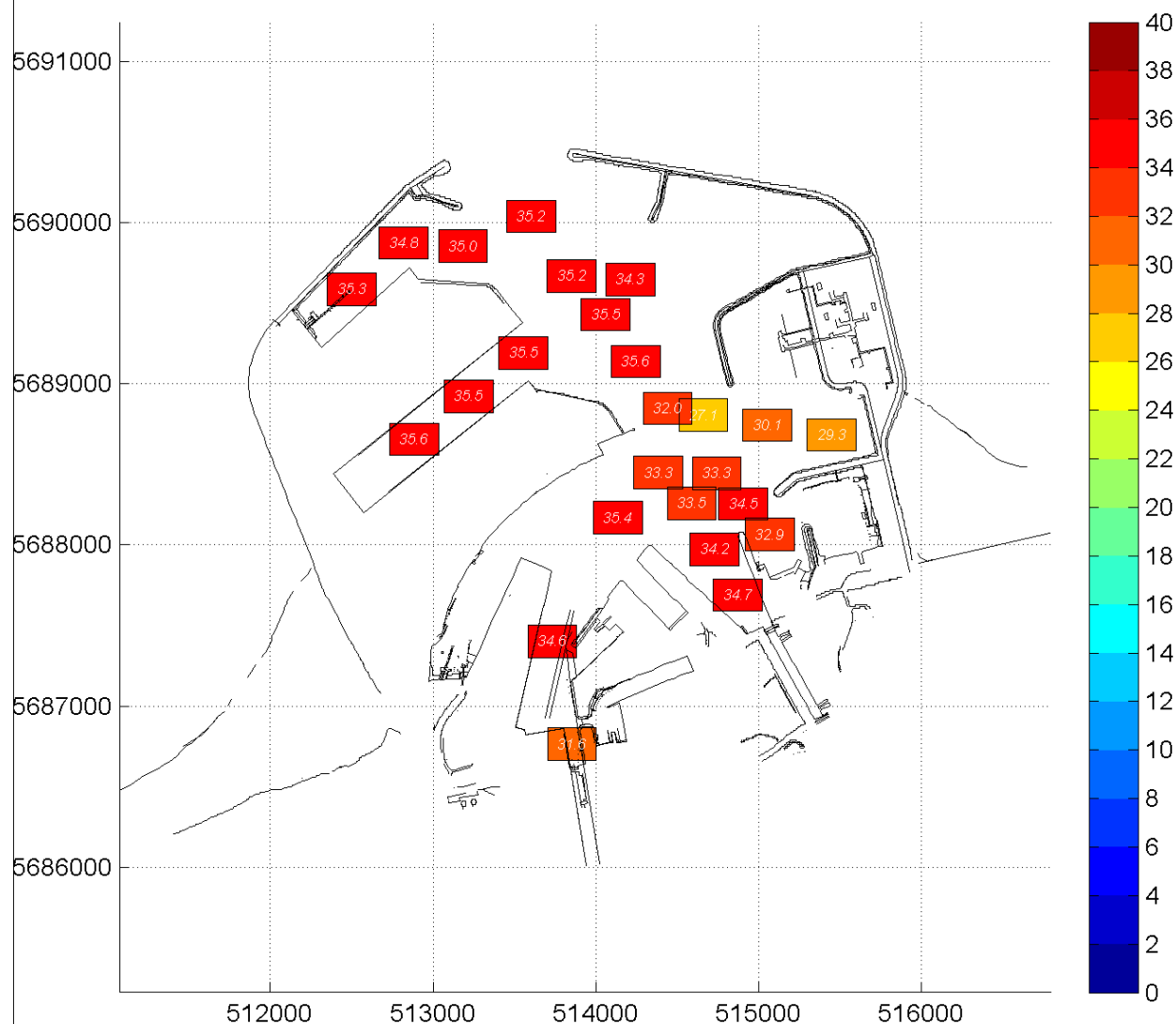
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



10:00: h = 3.33m  
22:50: h = 3.69m  
16:25: h = 1.32m

Date/time:

15-Jan-2007

15:09 - 17:40

Time after HW

-6:24

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

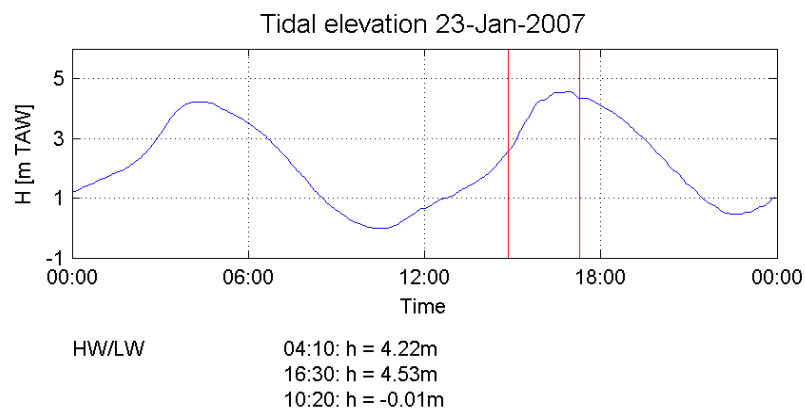
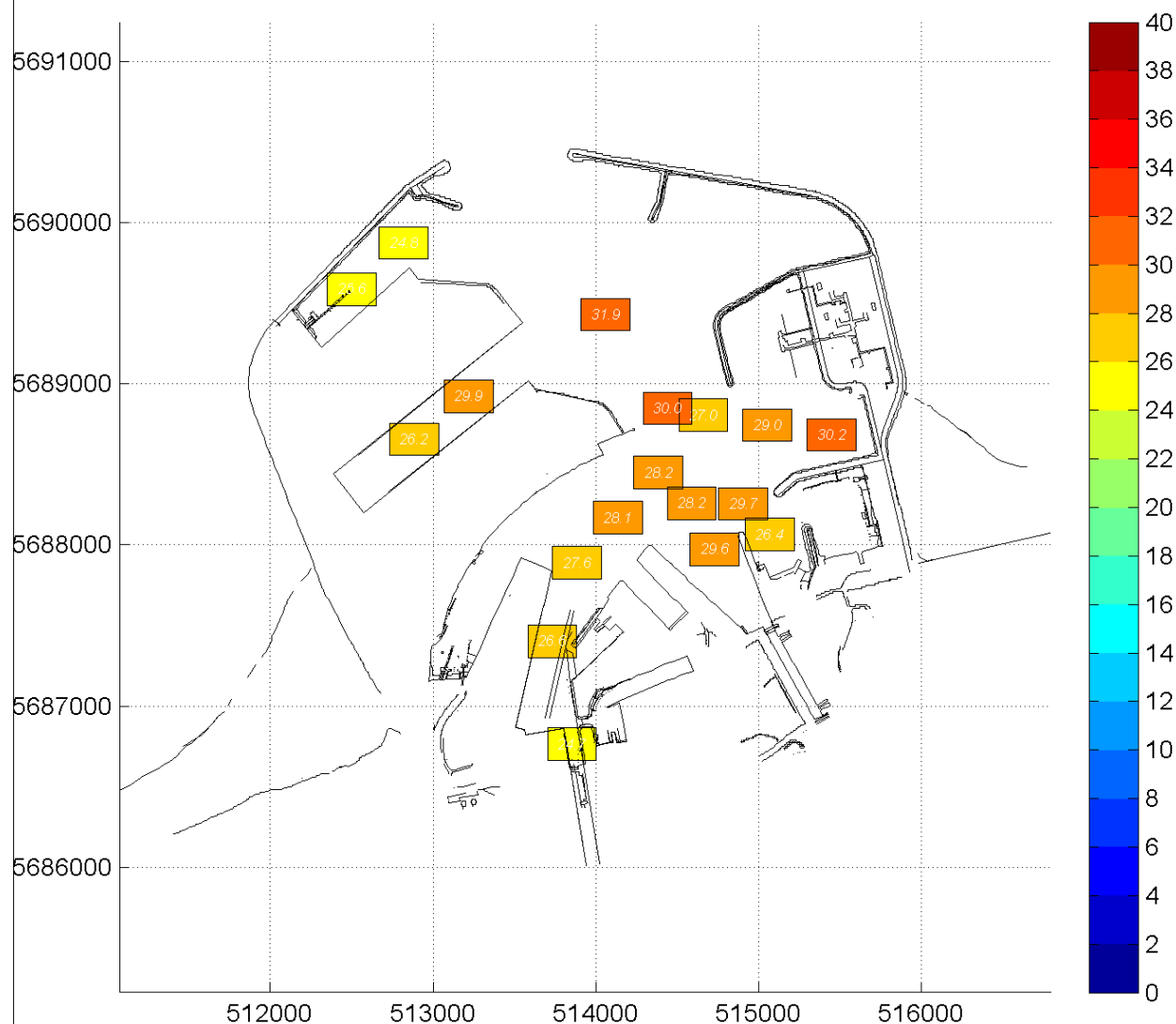
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

23-Jan-2007

14:51 - 17:16

Time after HW

-0:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

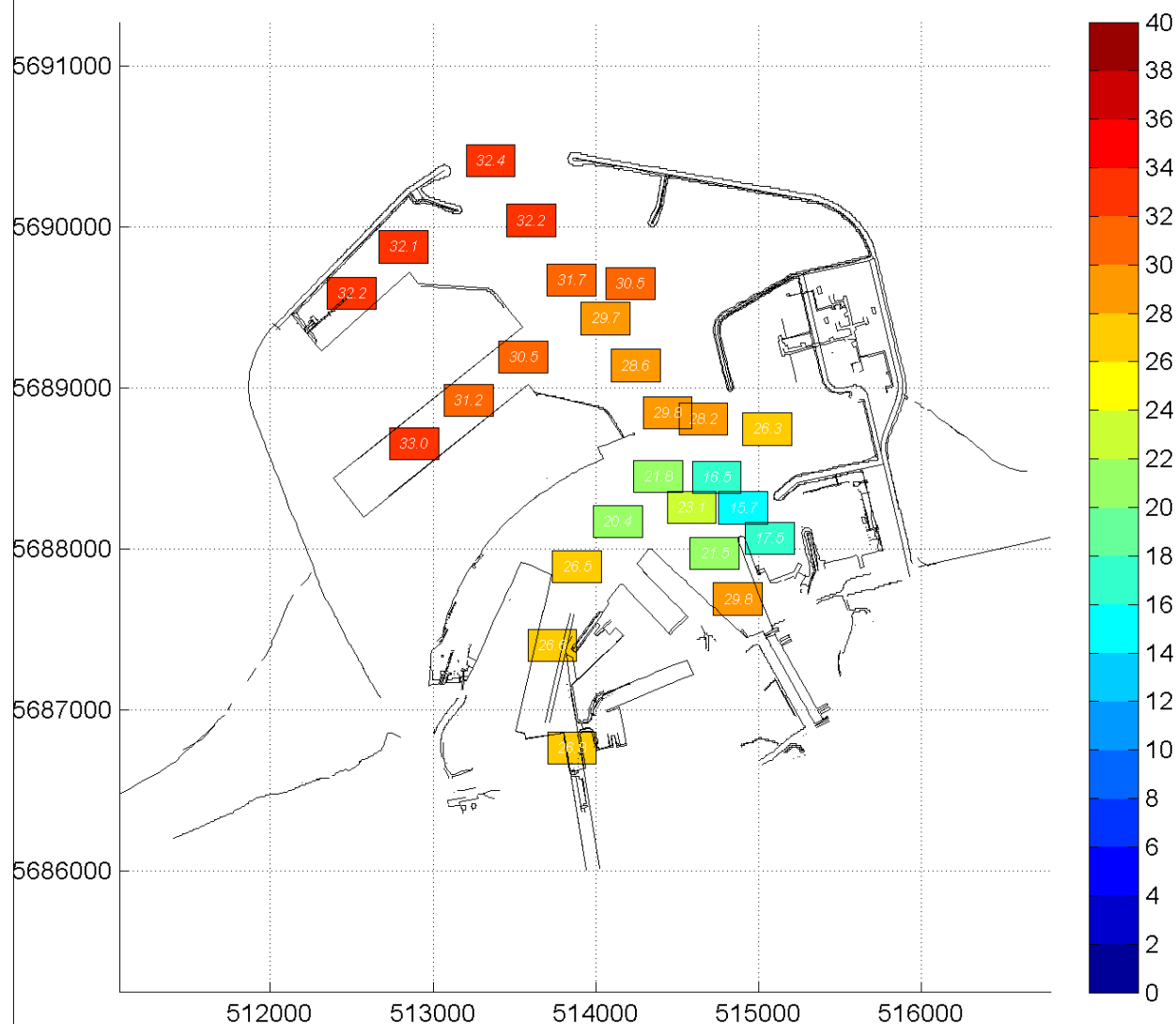
11292 - Zoutmetingen Zeebrugge

Location:

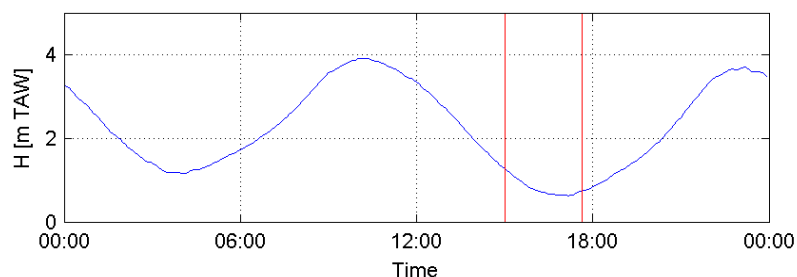
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 29-Jan-2007



HW/LW

10:05: h = 3.91m

23:10: h = 3.7m

16:45: h = 0.65m

Date/time:

29-Jan-2007

15:00 - 17:37

Time after HW

6:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

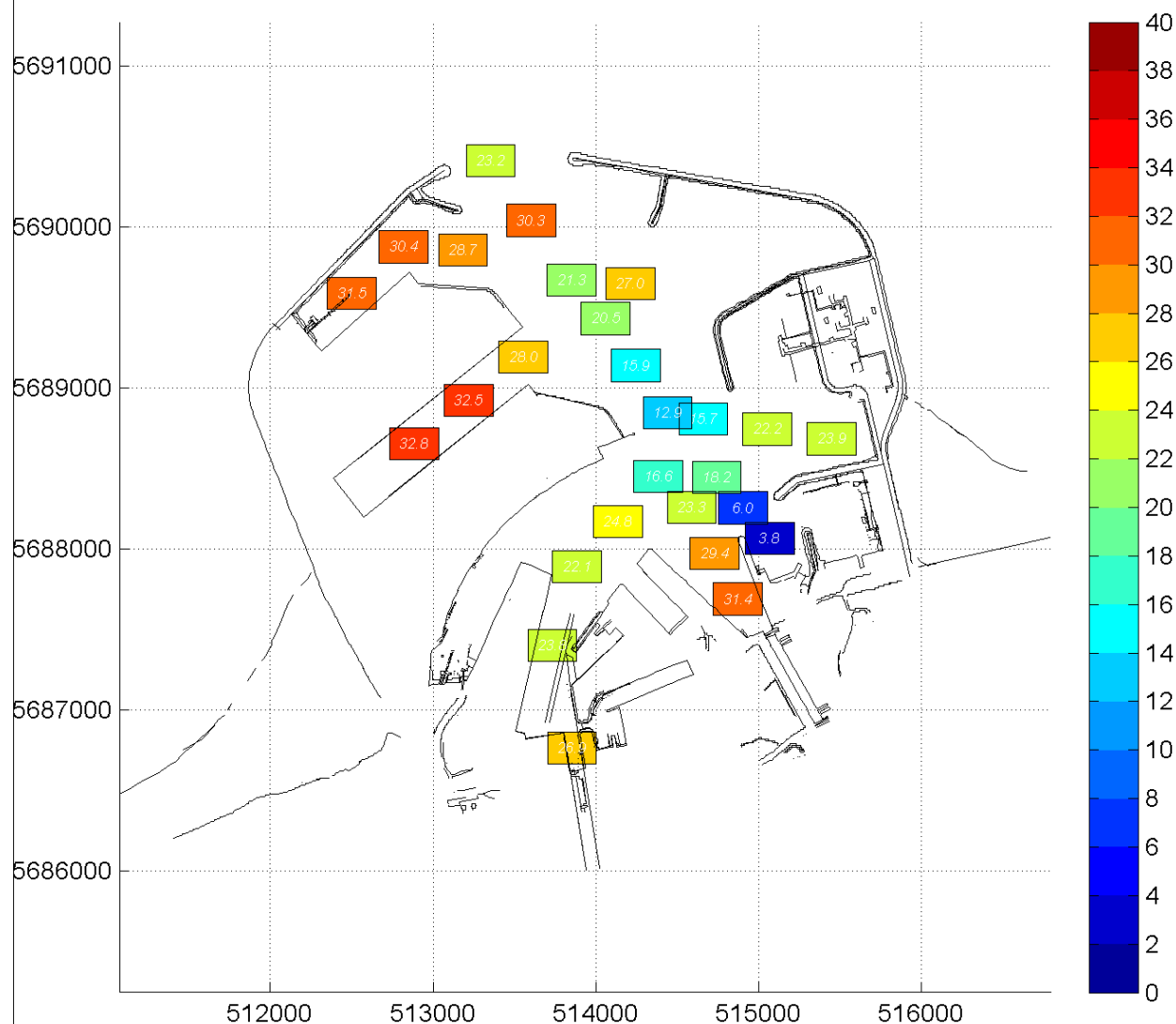
11292 - Zoutmetingen Zeebrugge

Location:

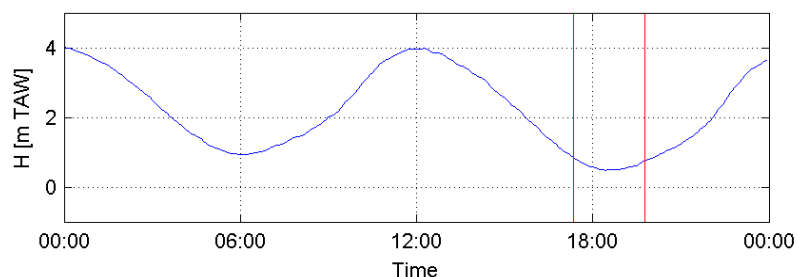
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 15-Feb-2007



Date/time:

15-Feb-2007

17:19 - 19:45

Time after HW

-5:52

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

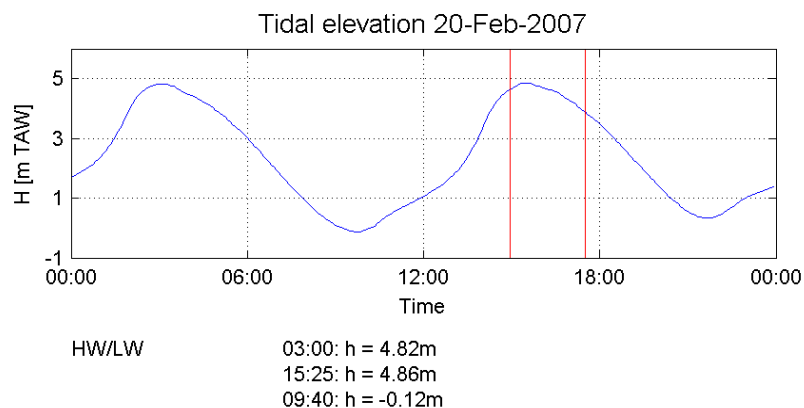
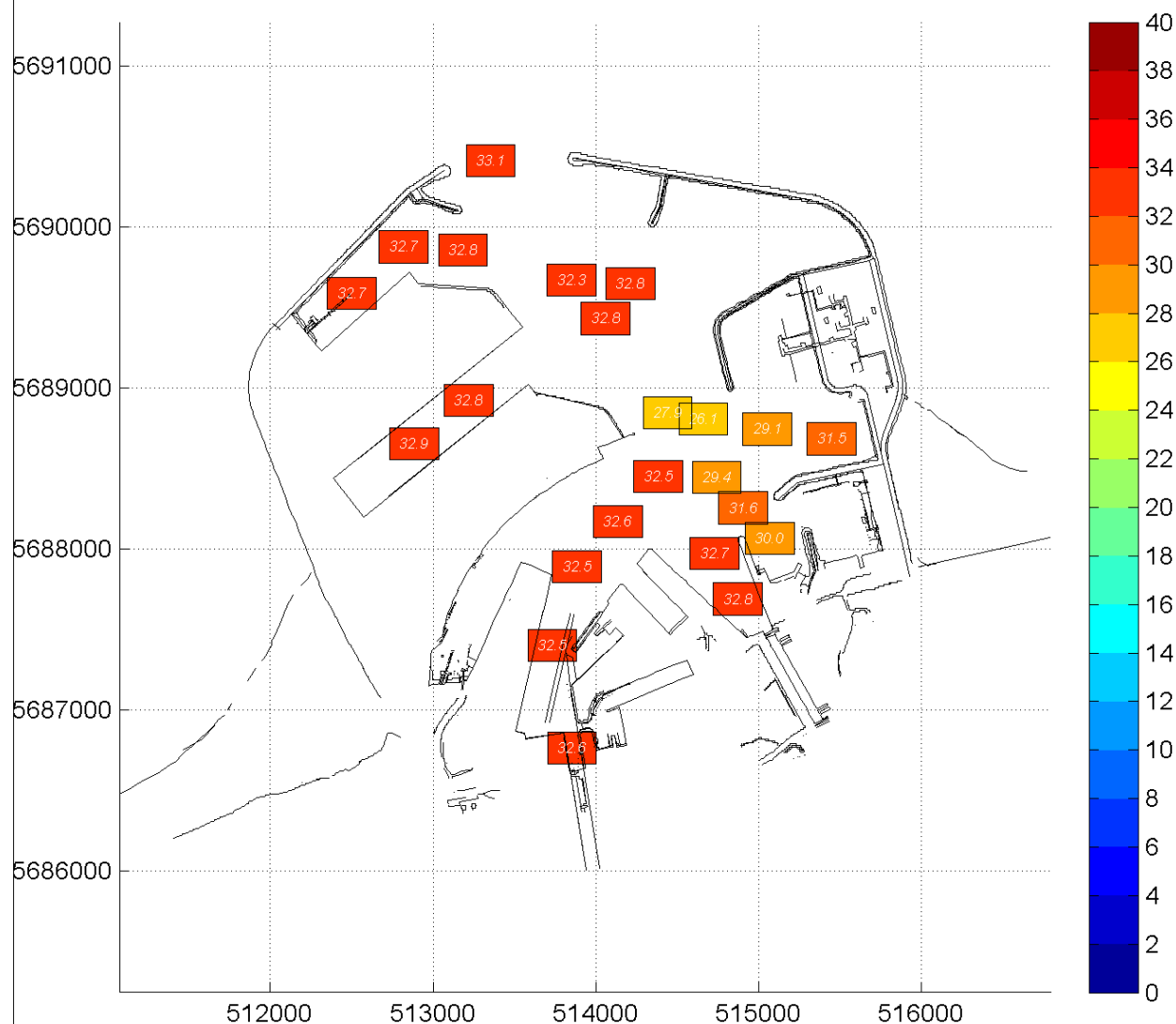
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

20-Feb-2007

14:56 - 17:29

Time after HW

0:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

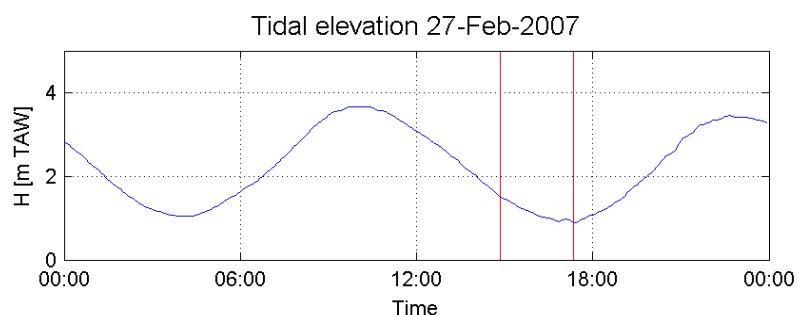
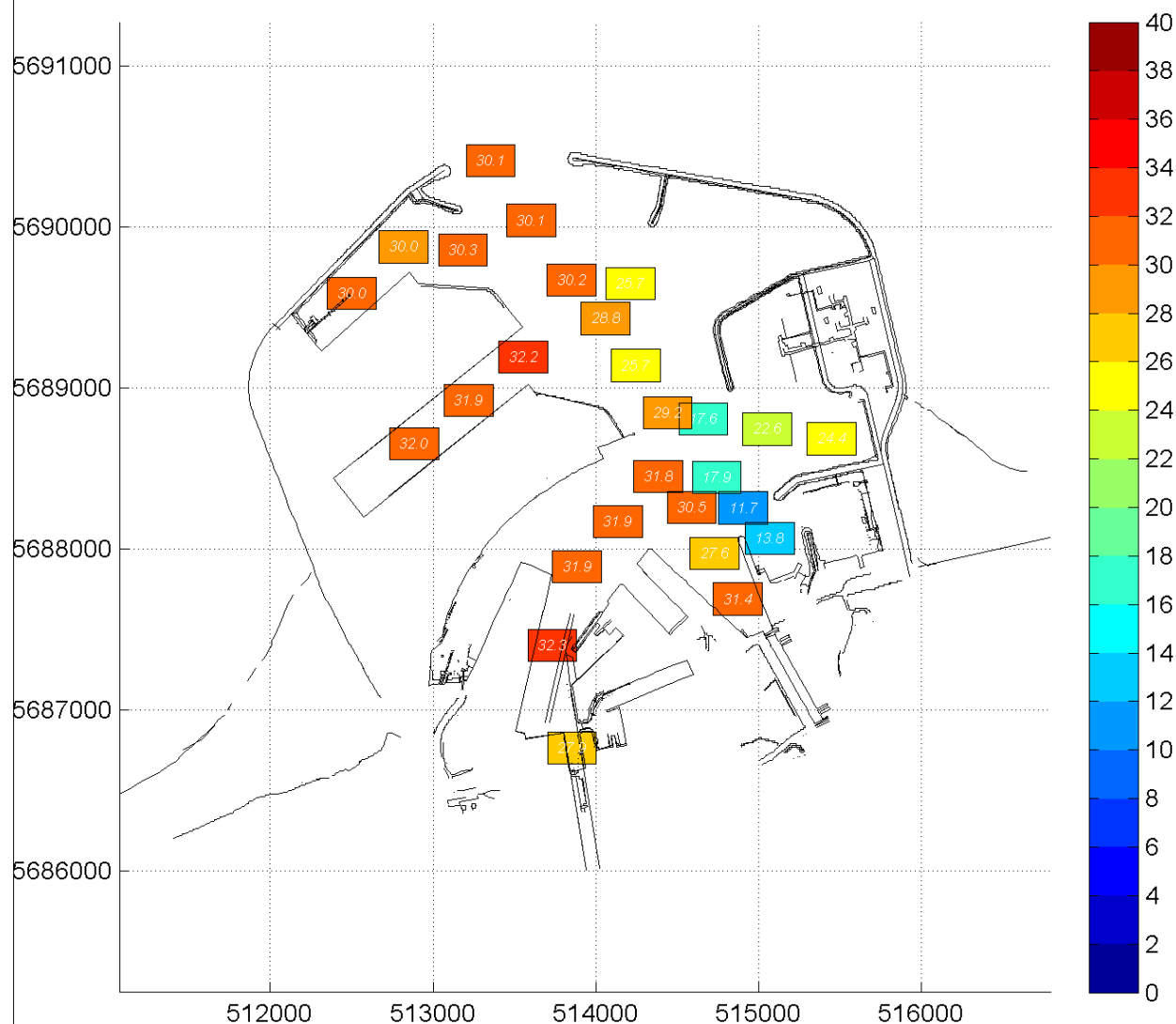
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

09:50: h = 3.67m

22:40: h = 3.45m

16:50: h = 0.92m

Date/time:

27-Feb-2007

14:50 - 17:20

Time after HW

6:15

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

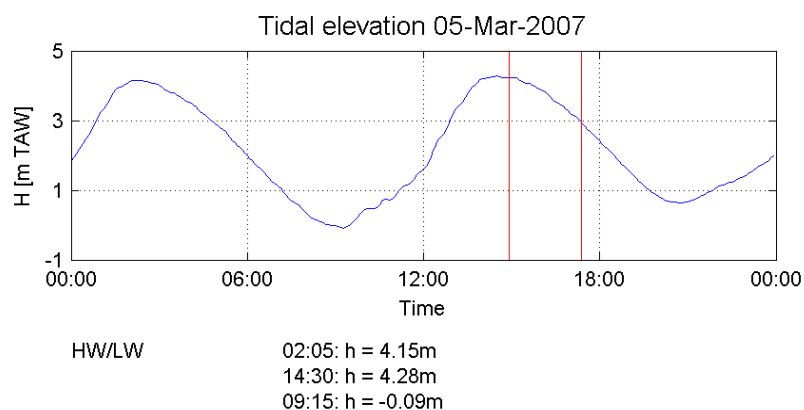
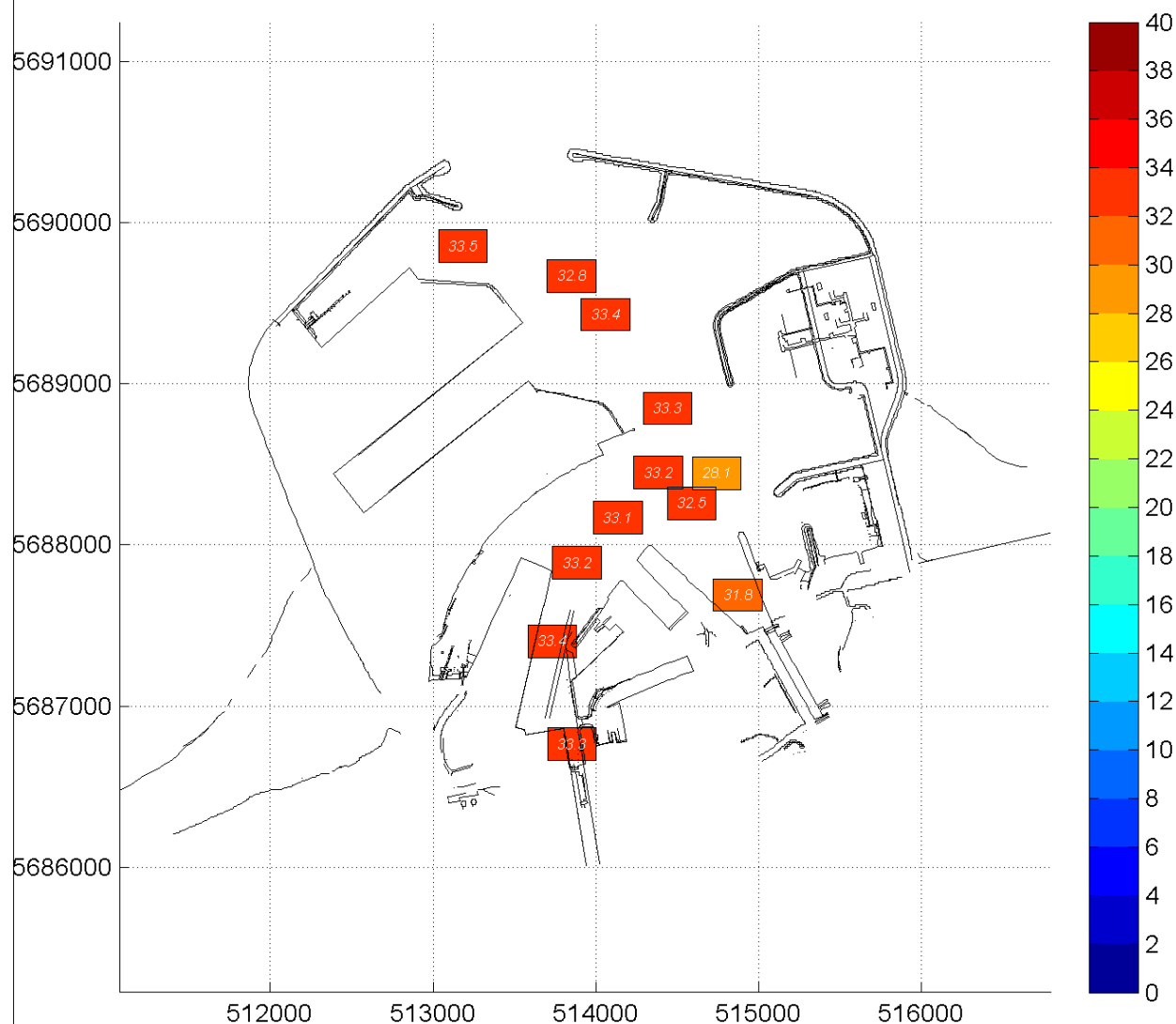
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

05-Mar-2007

14:54 - 17:22

Time after HW

1:38

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

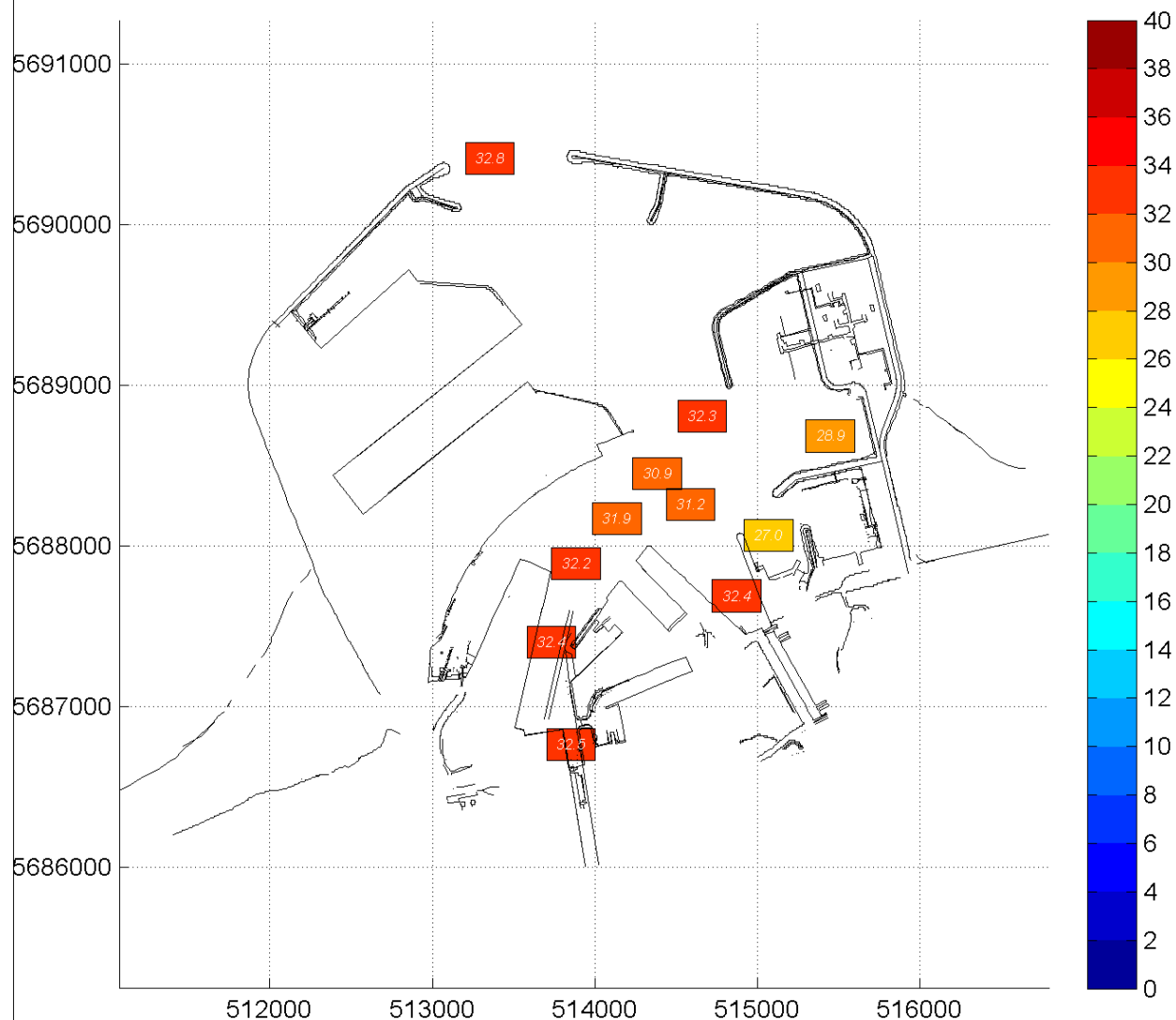
11292 - Zoutmetingen Zeebrugge

Location:

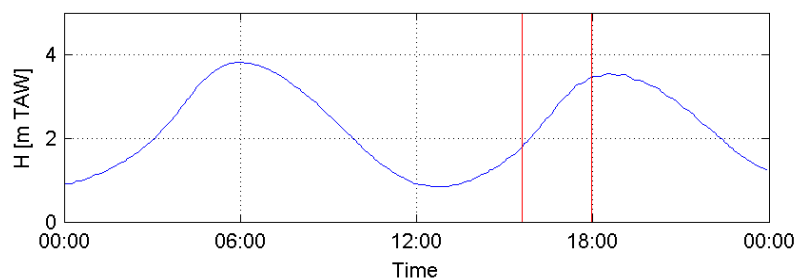
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 12-Mar-2007



HW/LW

05:55: h = 3.82m

18:30: h = 3.54m

12:35: h = 0.84m

Date/time:

12-Mar-2007

15:35 - 17:57

Time after HW

-1:43

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

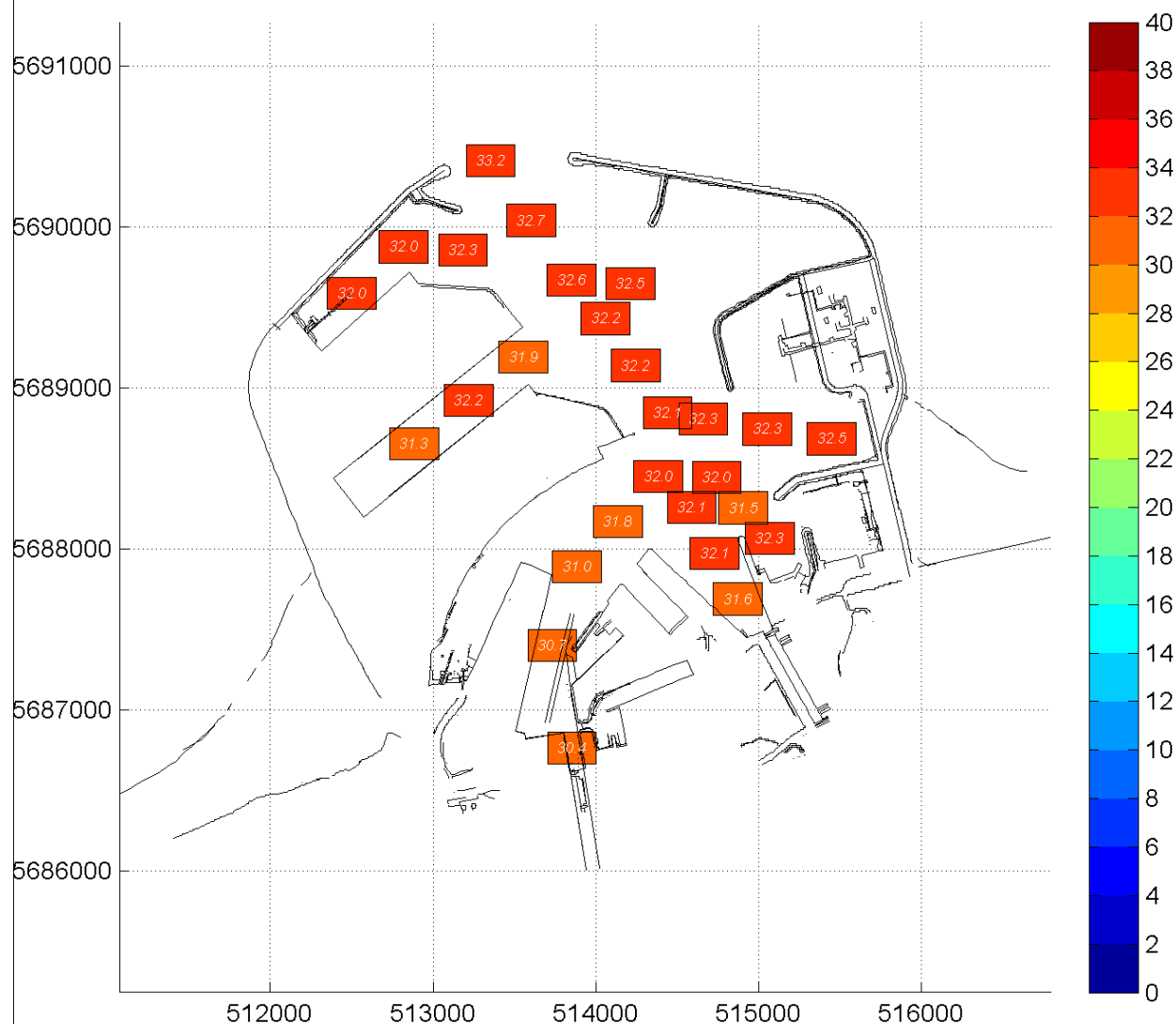
11292 - Zoutmetingen Zeebrugge

Location:

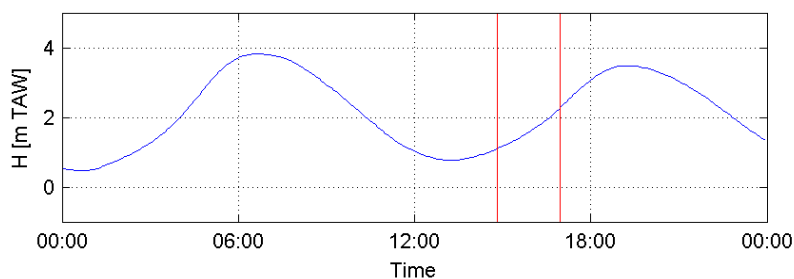
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 26-Mar-2007



HW/LW

06:35: h = 3.83m  
19:00: h = 3.47m  
13:15: h = 0.77m

Date/time:

26-Mar-2007

14:48 - 16:57

Time after HW

-3:06

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

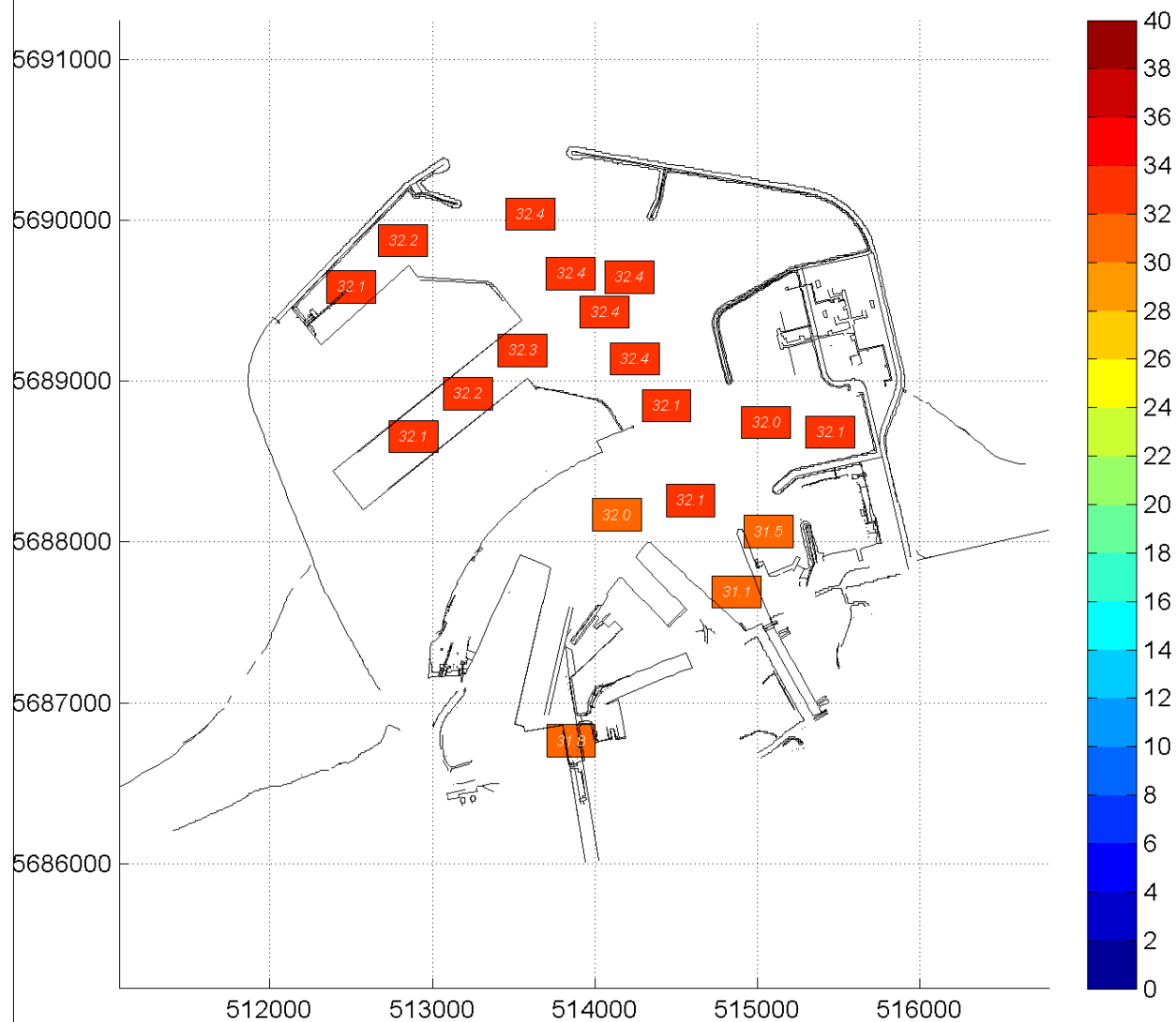
11292 - Zoutmetingen Zeebrugge

Location:

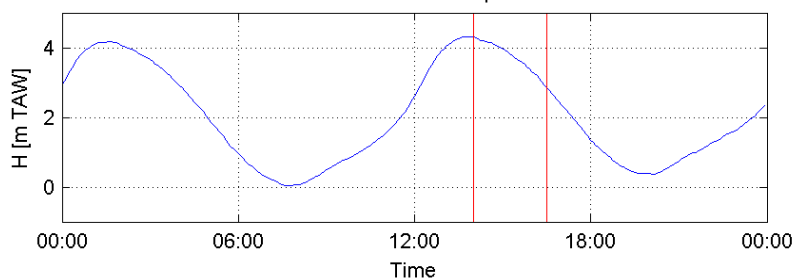
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 02-Apr-2007



HW/LW

01:35: h = 4.17m

13:50: h = 4.31m

07:40: h = 0.04m

Date/time:

02-Apr-2007

14:00 - 16:29

Time after HW

1:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

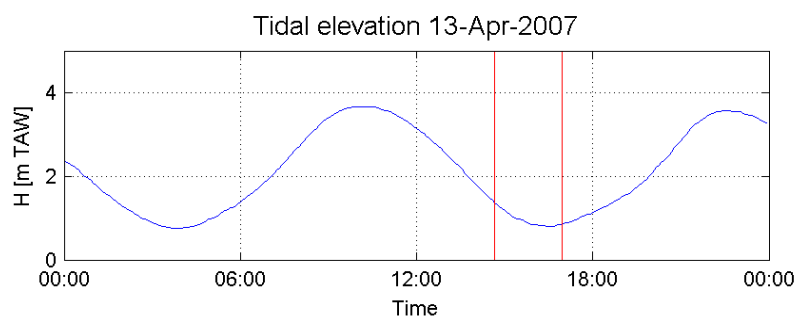
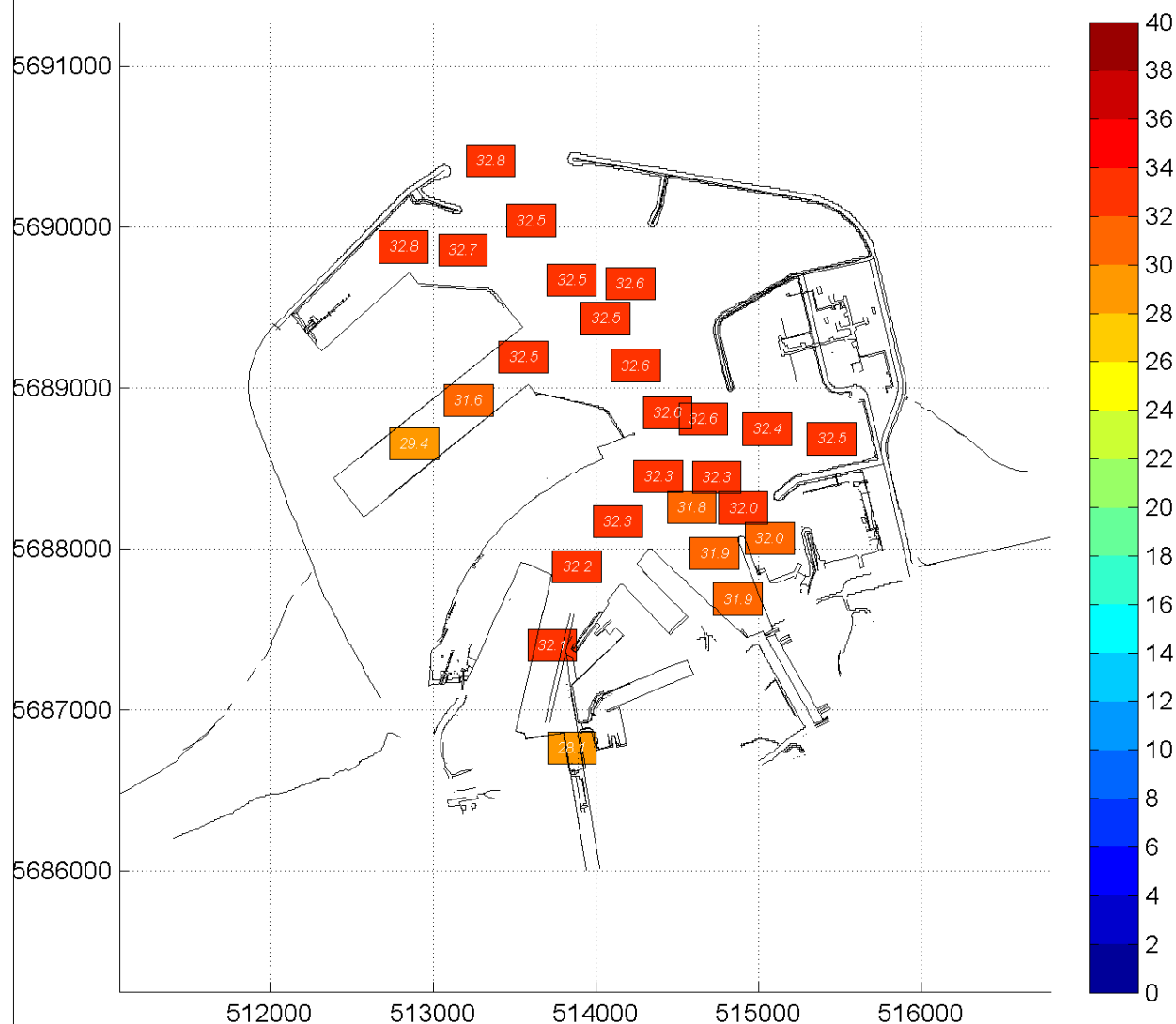
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

09:55: h = 3.67m

22:30: h = 3.58m

16:25: h = 0.81m

Date/time:

13-Apr-2007

14:38 - 16:58

Time after HW

5:53

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

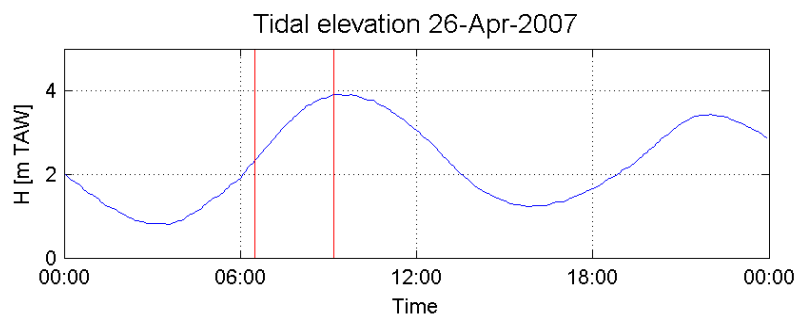
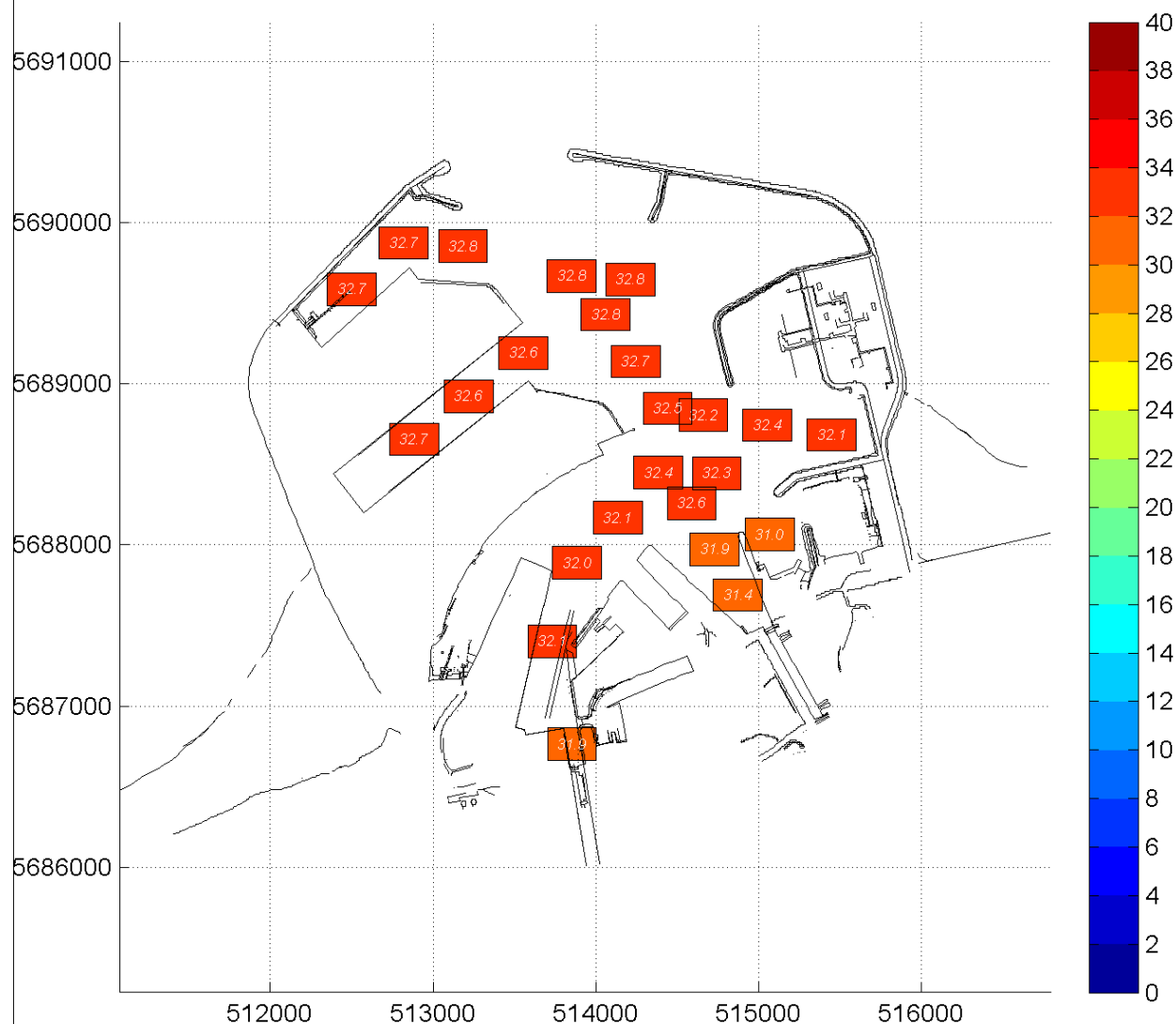
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



09:15: h = 3.91m  
21:50: h = 3.42m  
15:50: h = 1.22m

Date/time:

26-Apr-2007

06:28 - 09:10

Time after HW

-1:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

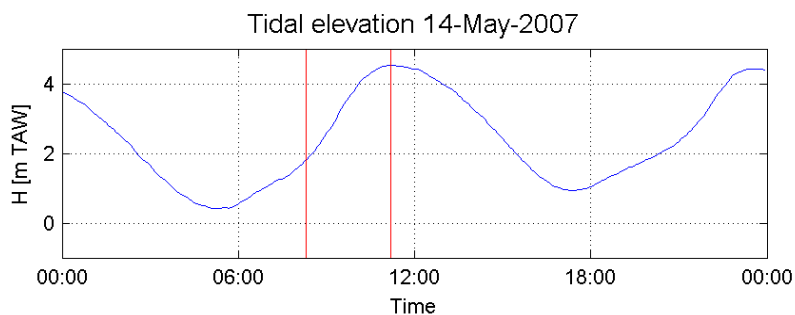
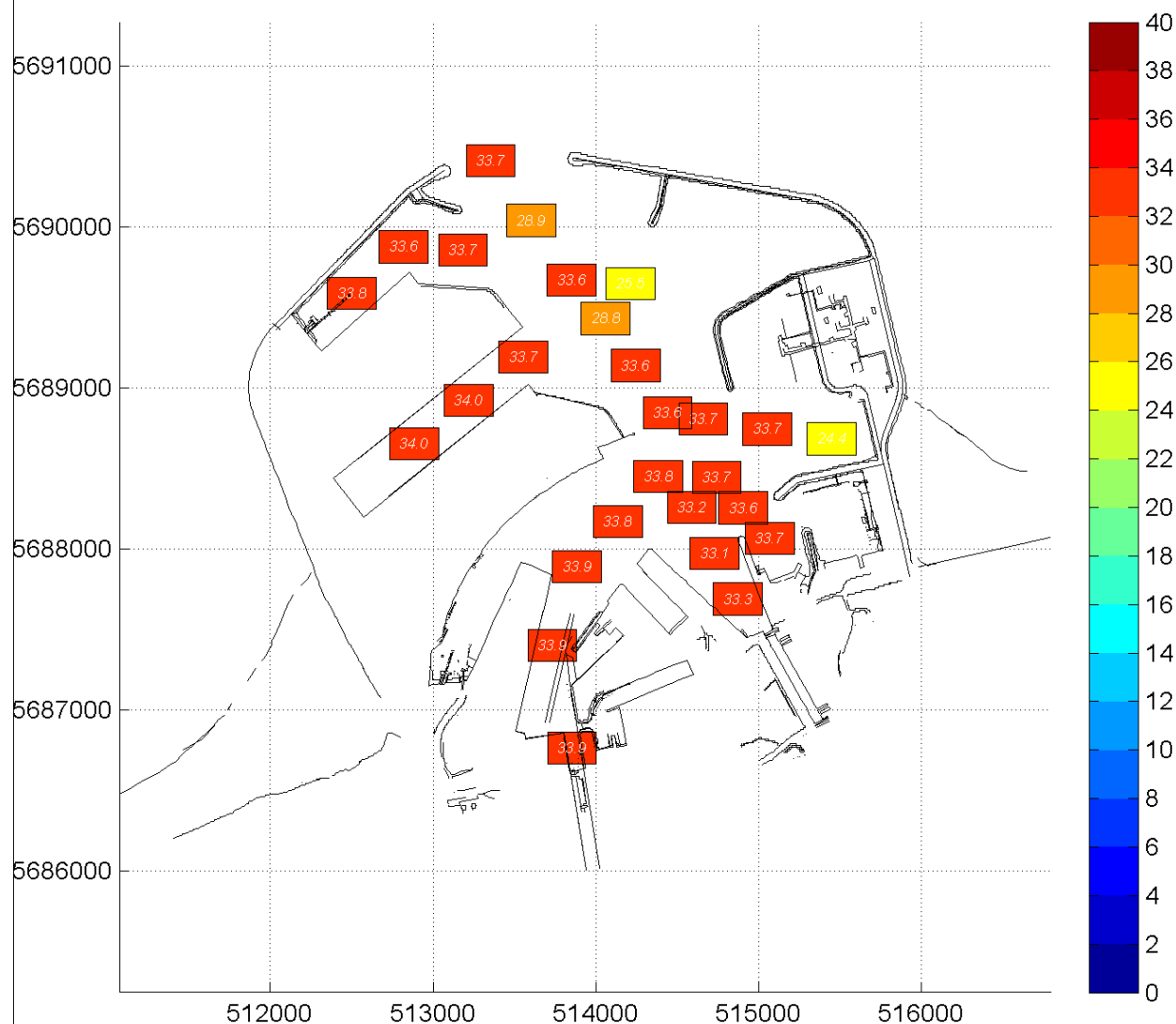
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

11:05: h = 4.53m

23:25: h = 4.43m

17:25: h = 0.92m

Date/time:

14-May-2007

08:17 - 11:11

Time after HW

-1:20

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

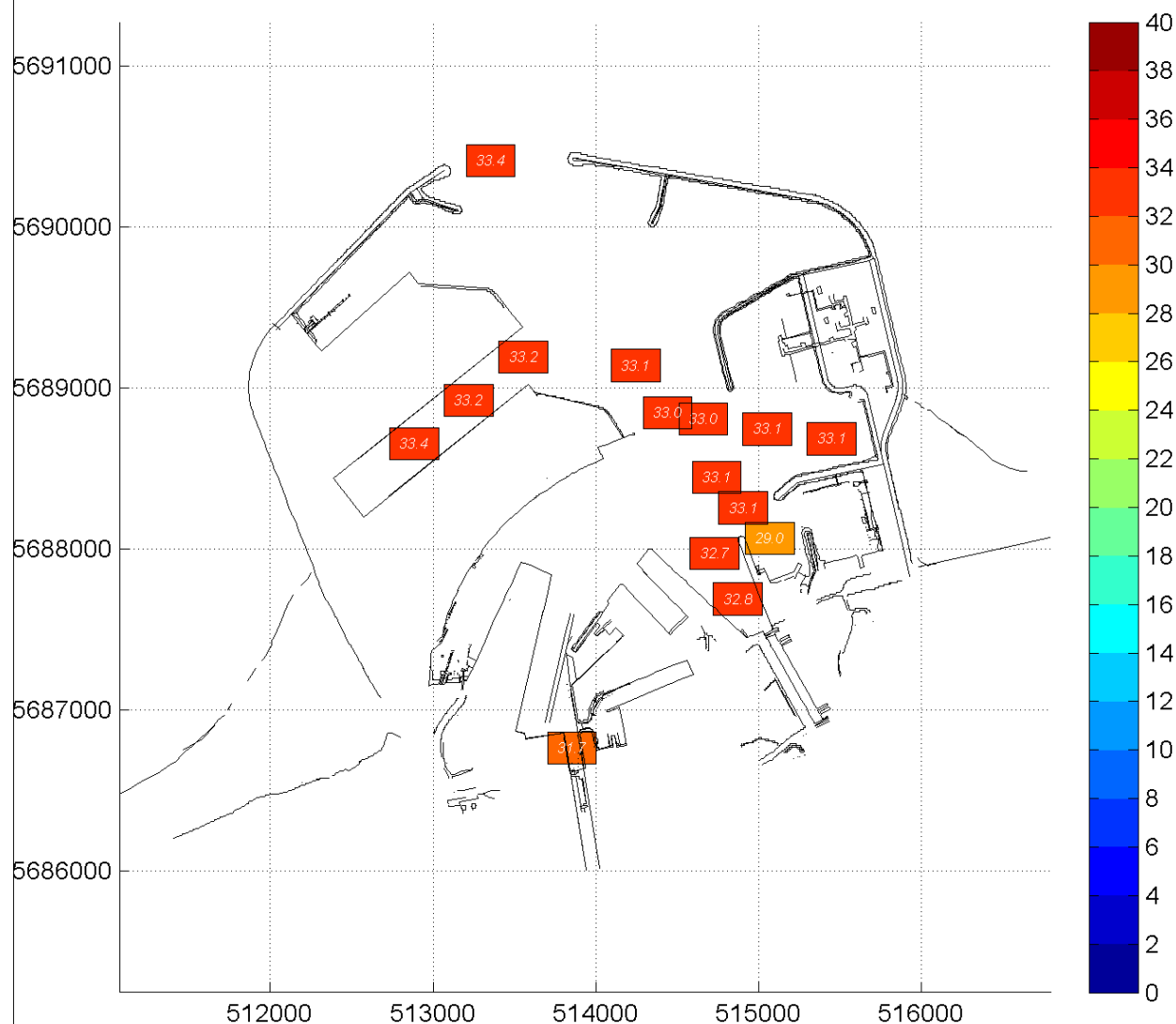
11292 - Zoutmetingen Zeebrugge

Location:

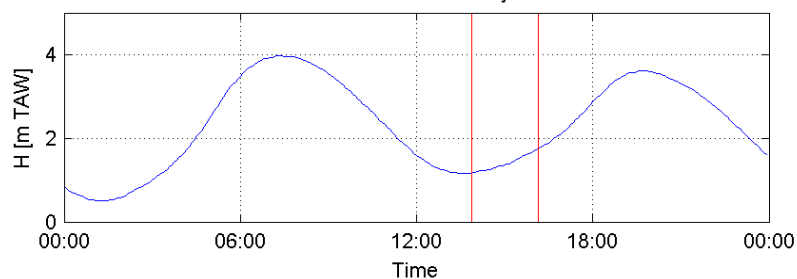
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 24-May-2007



Date/time:

24-May-2007

13:52 - 16:09

Time after HW

-4:34

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

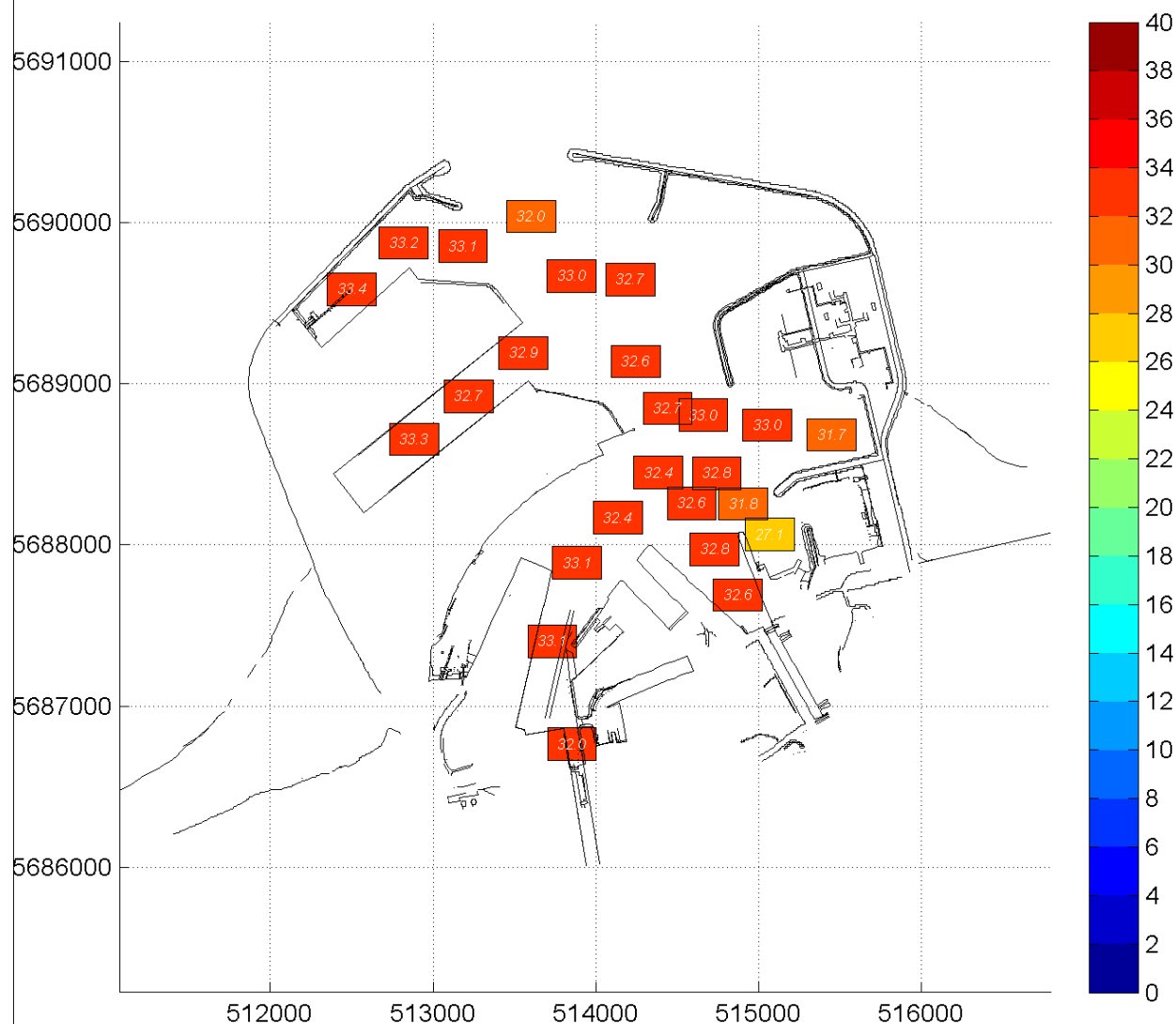
11292 - Zoutmetingen Zeebrugge

Location:

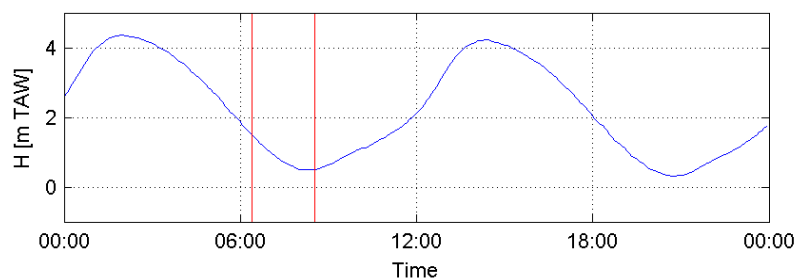
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 02-Jun-2007



HW/LW

01:55: h = 4.36m

14:20: h = 4.22m

08:20: h = 0.49m

Date/time:

02-Jun-2007

06:23 - 08:32

Time after HW

5:32

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

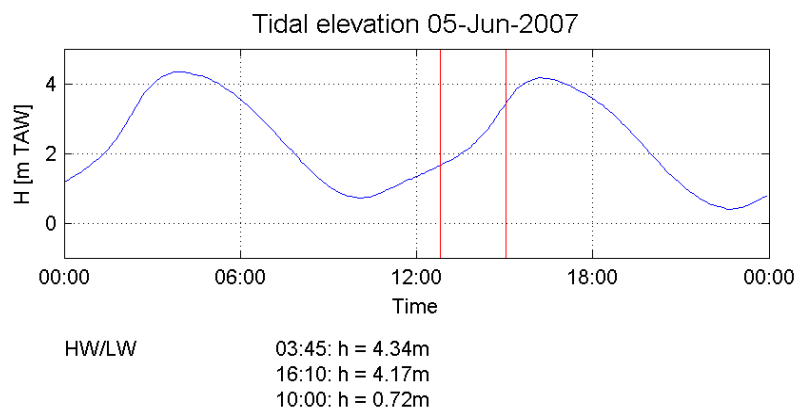
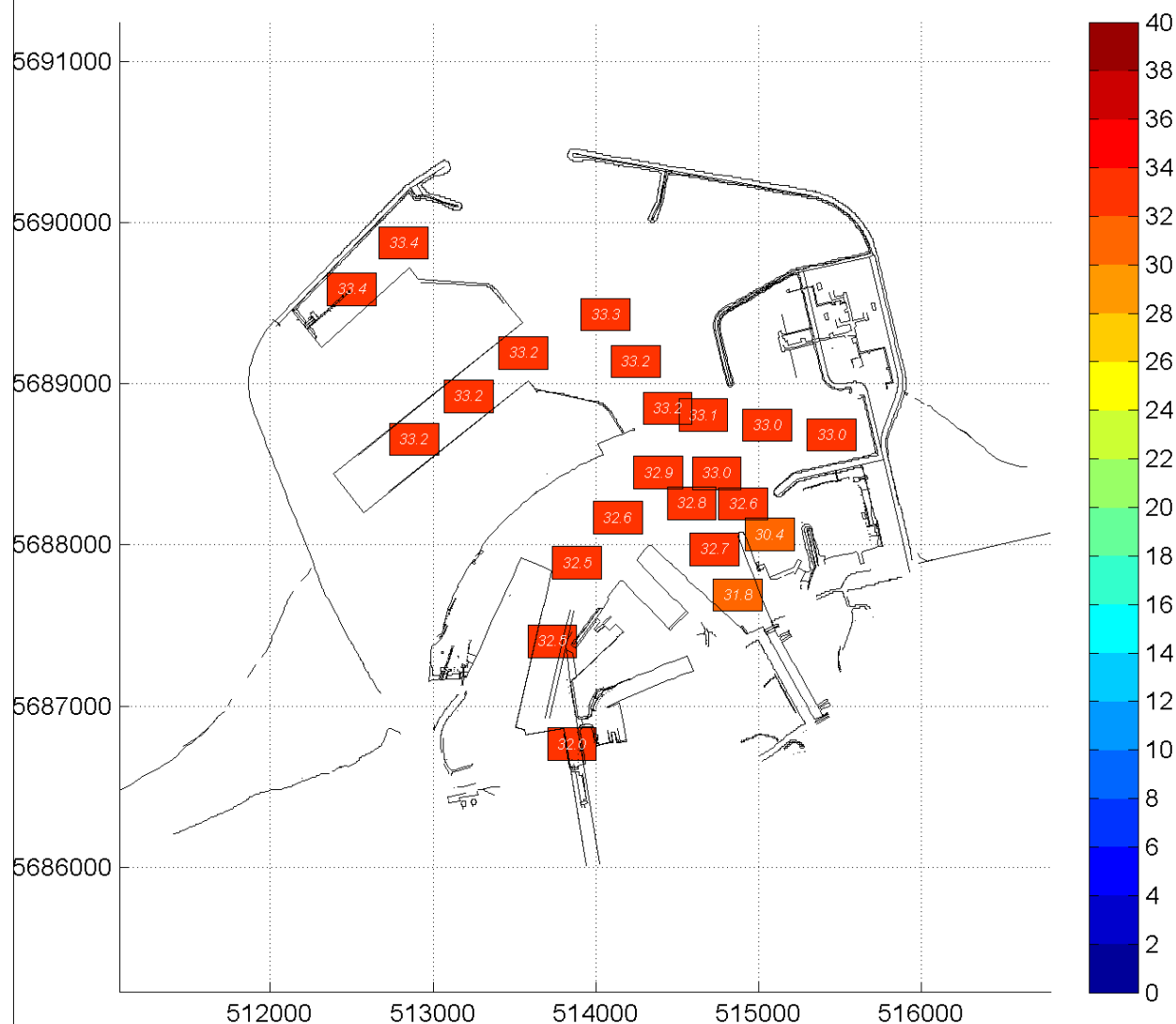
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

05-Jun-2007

12:48 - 15:01

Time after HW

-2:15

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

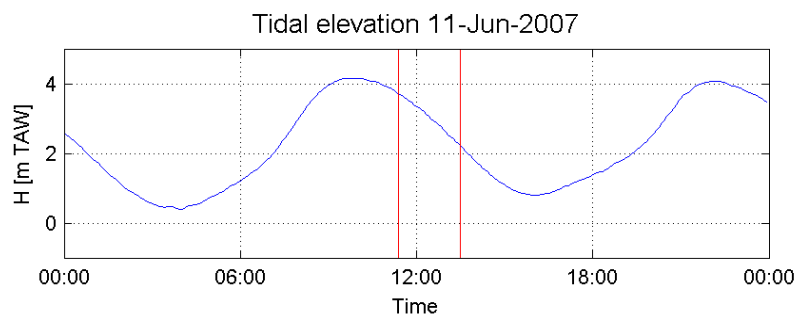
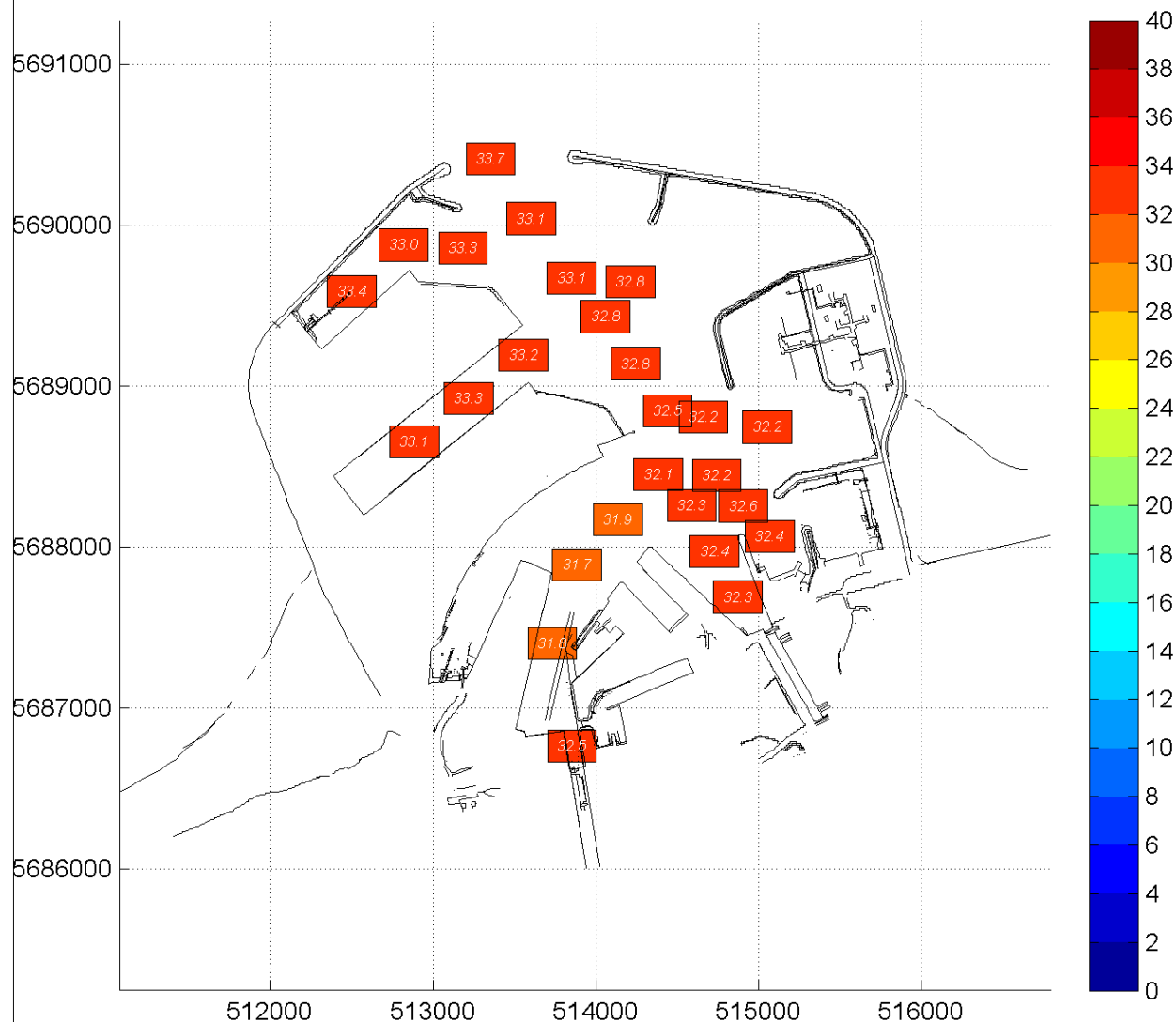
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

09:35: h = 4.15m

22:00: h = 4.07m

15:55: h = 0.81m

Date/time:

11-Jun-2007

11:23 - 13:28

Time after HW

2:50

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

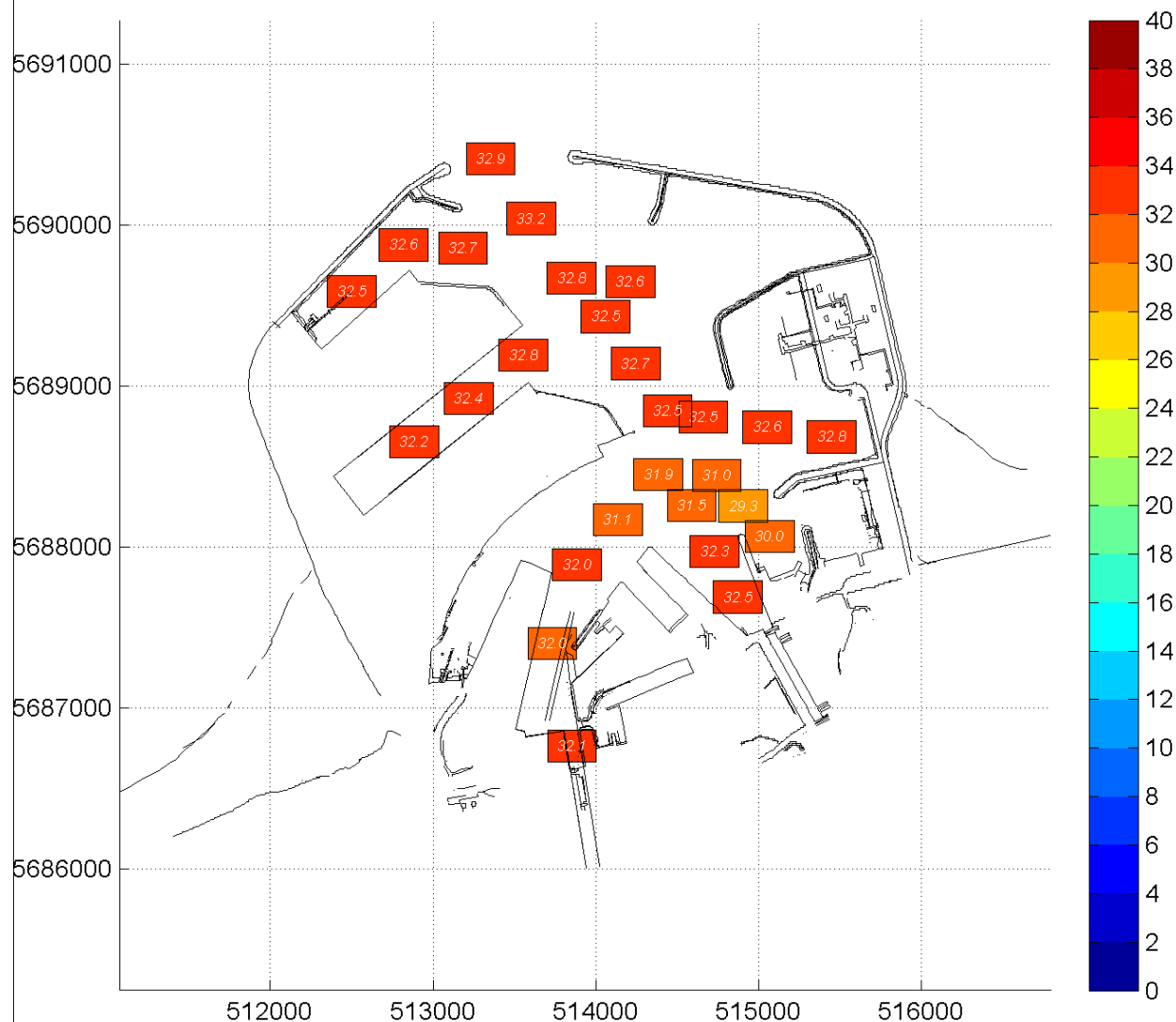
11292 - Zoutmetingen Zeebrugge

Location:

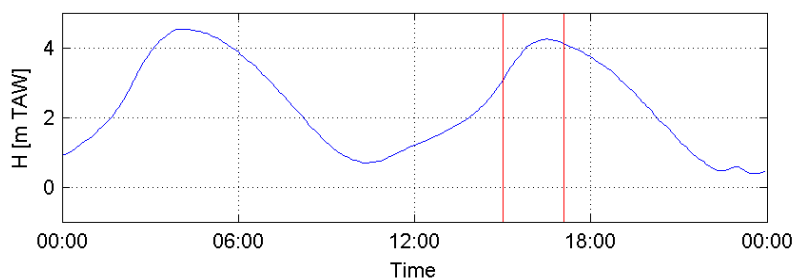
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 19-Jun-2007



HW/LW

04:00: h = 4.53m

16:30: h = 4.25m

10:20: h = 0.69m

Date/time:

19-Jun-2007

15:00 - 17:04

Time after HW

-0:27

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

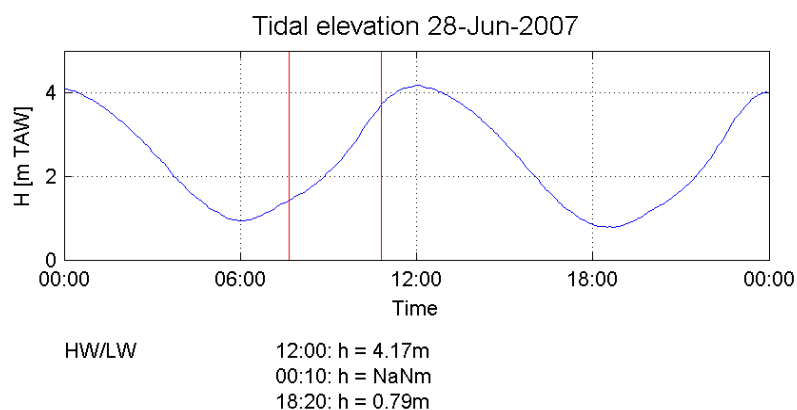
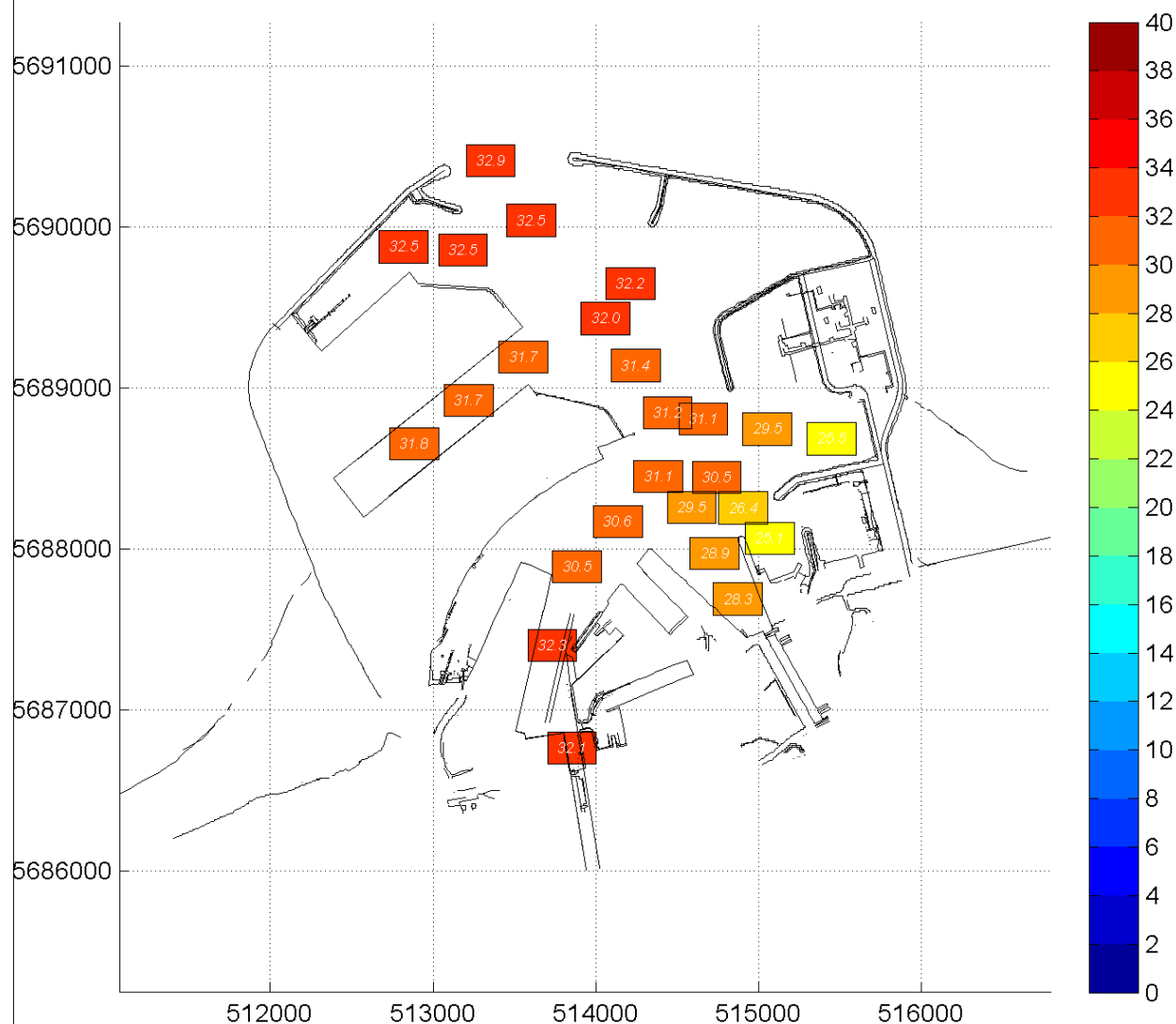
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

28-Jun-2007

07:39 - 10:47

Time after HW

-2:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

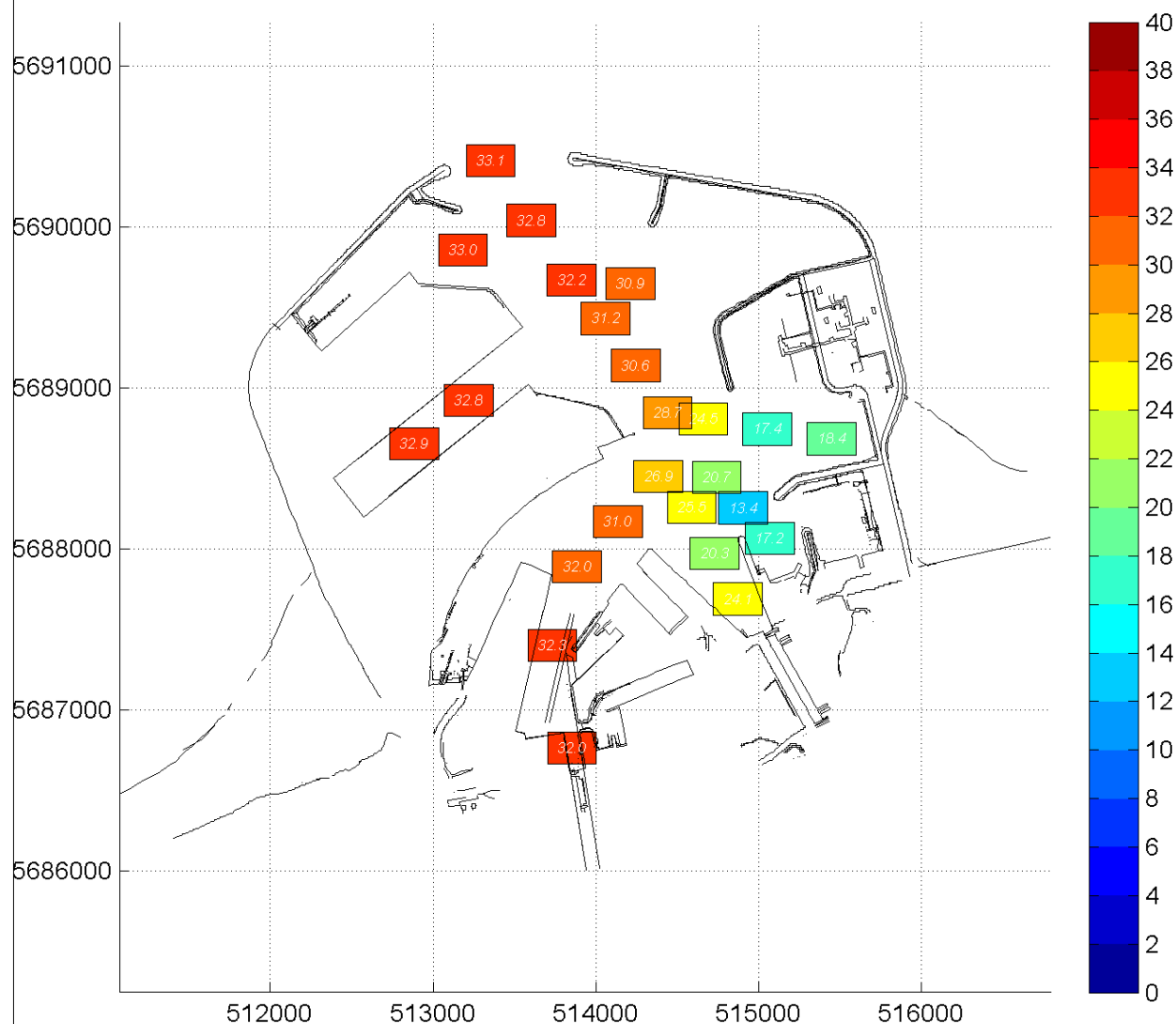
11292 - Zoutmetingen Zeebrugge

Location:

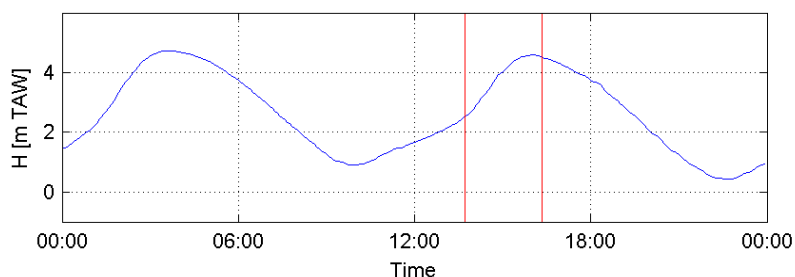
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 04-Jul-2007



HW/LW

03:35: h = 4.73m

16:00: h = 4.59m

09:50: h = 0.9m

Date/time:

04-Jul-2007

13:43 - 16:20

Time after HW

-0:58

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

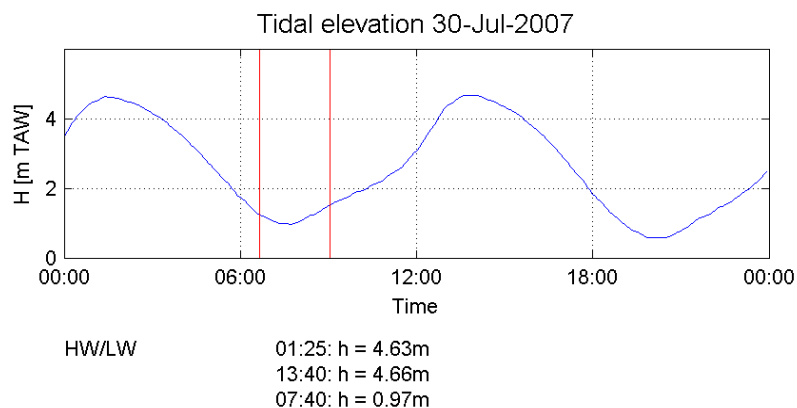
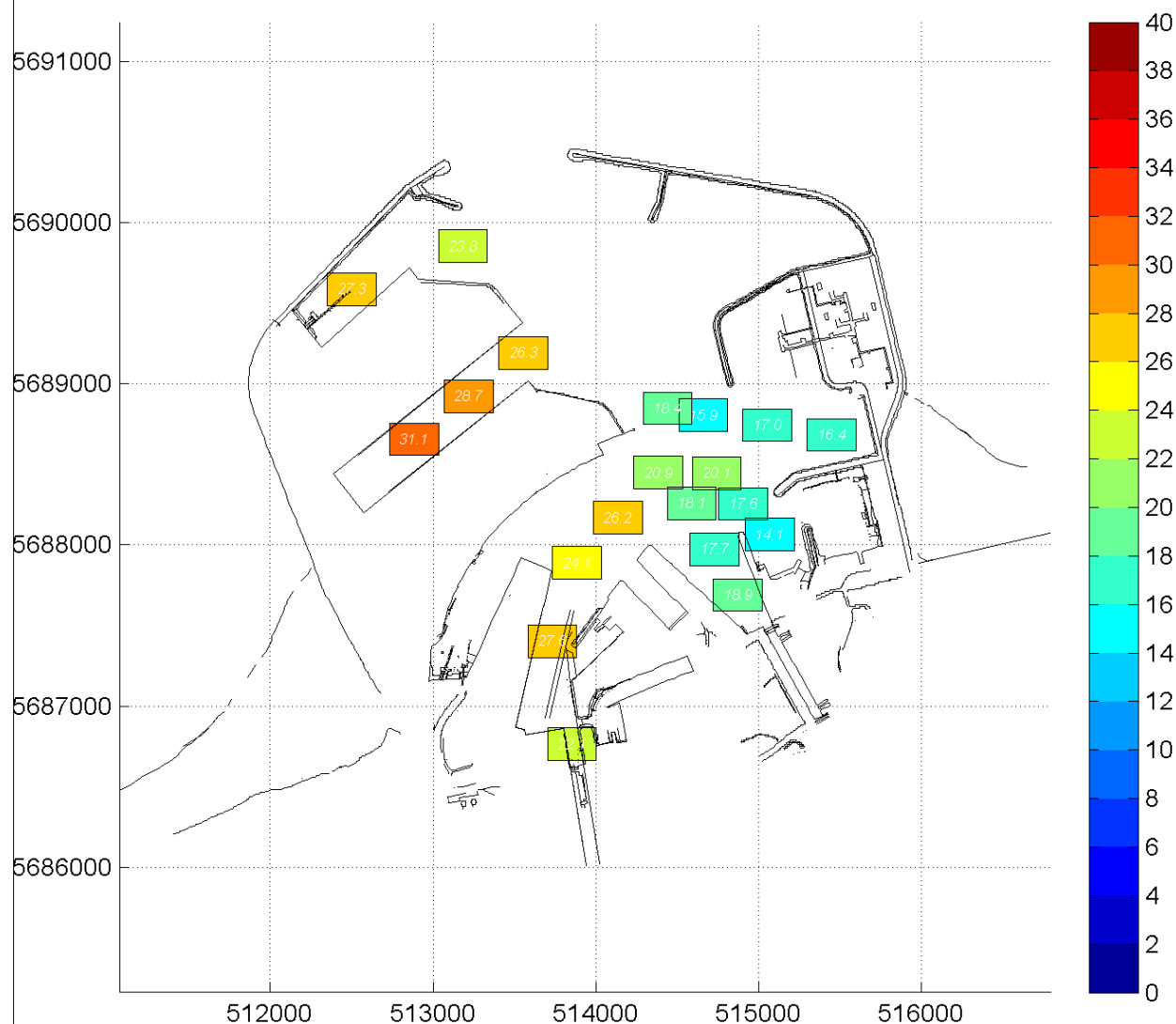
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

30-Jul-2007

06:39 - 09:03

Time after HW

-5:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

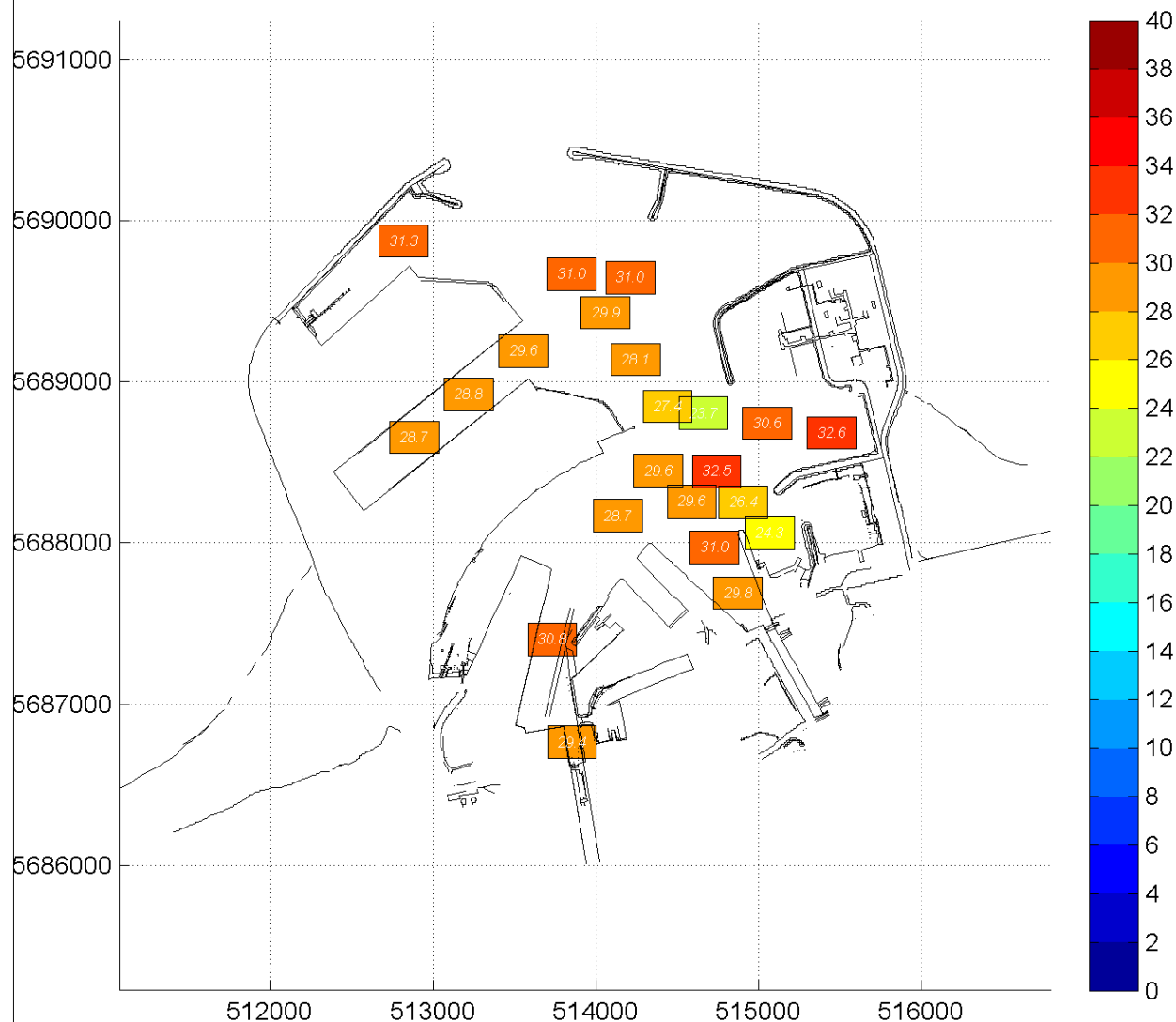
11292 - Zoutmetingen Zeebrugge

Location:

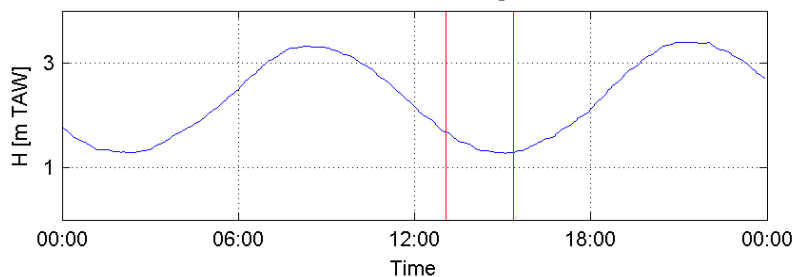
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 23-Aug-2007



Date/time:

23-Aug-2007

13:03 - 15:22

Time after HW

6:28

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

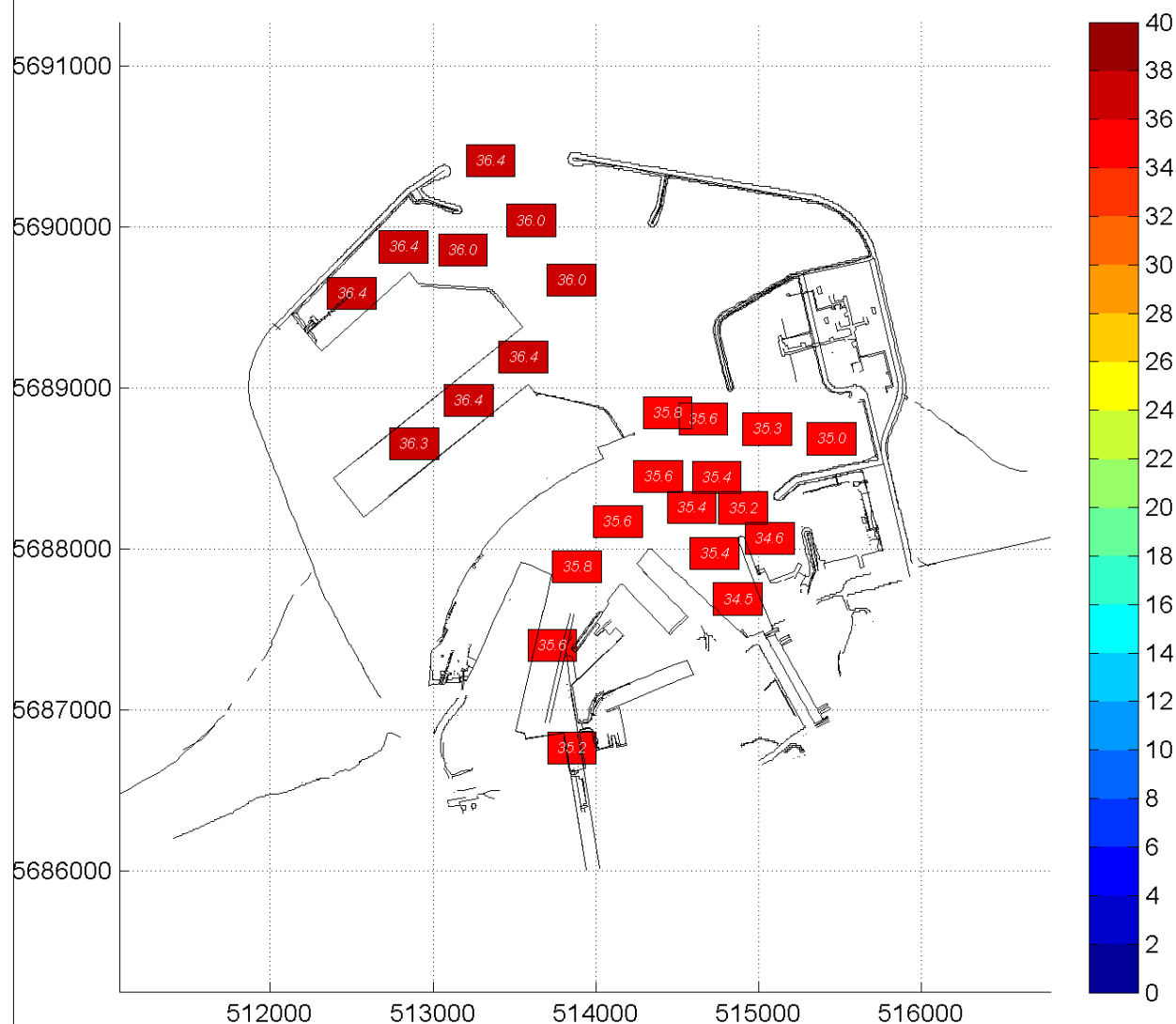
11292 - Zoutmetingen Zeebrugge

Location:

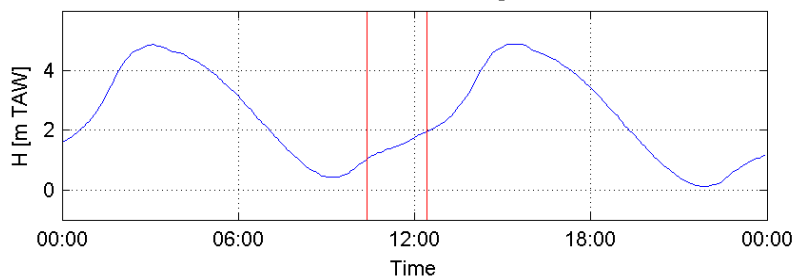
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 31-Aug-2007



HW/LW

03:05: h = 4.87m

15:20: h = 4.88m

09:05: h = 0.43m

Date/time:

31-Aug-2007

10:22 - 12:25

Time after HW

-3:55

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

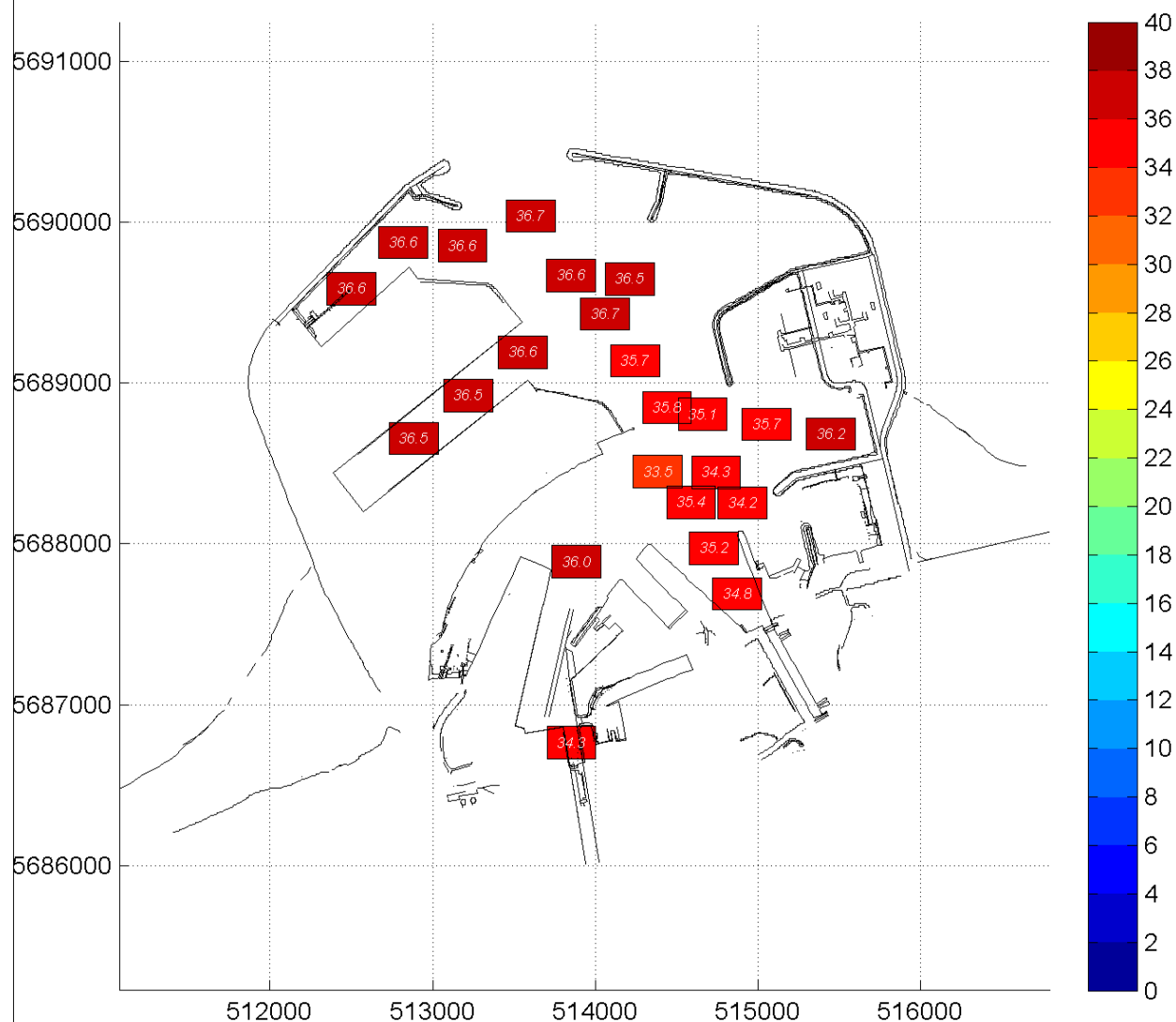
11292 - Zoutmetingen Zeebrugge

Location:

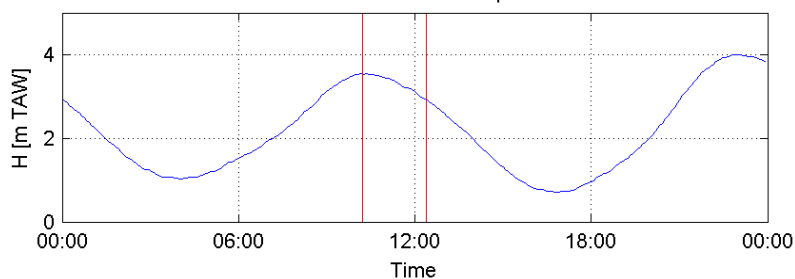
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 07-Sep-2007



HW/LW

10:10: h = 3.54m

22:55: h = 4m

16:45: h = 0.72m

Date/time:

07-Sep-2007

10:12 - 12:22

Time after HW

1:07

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

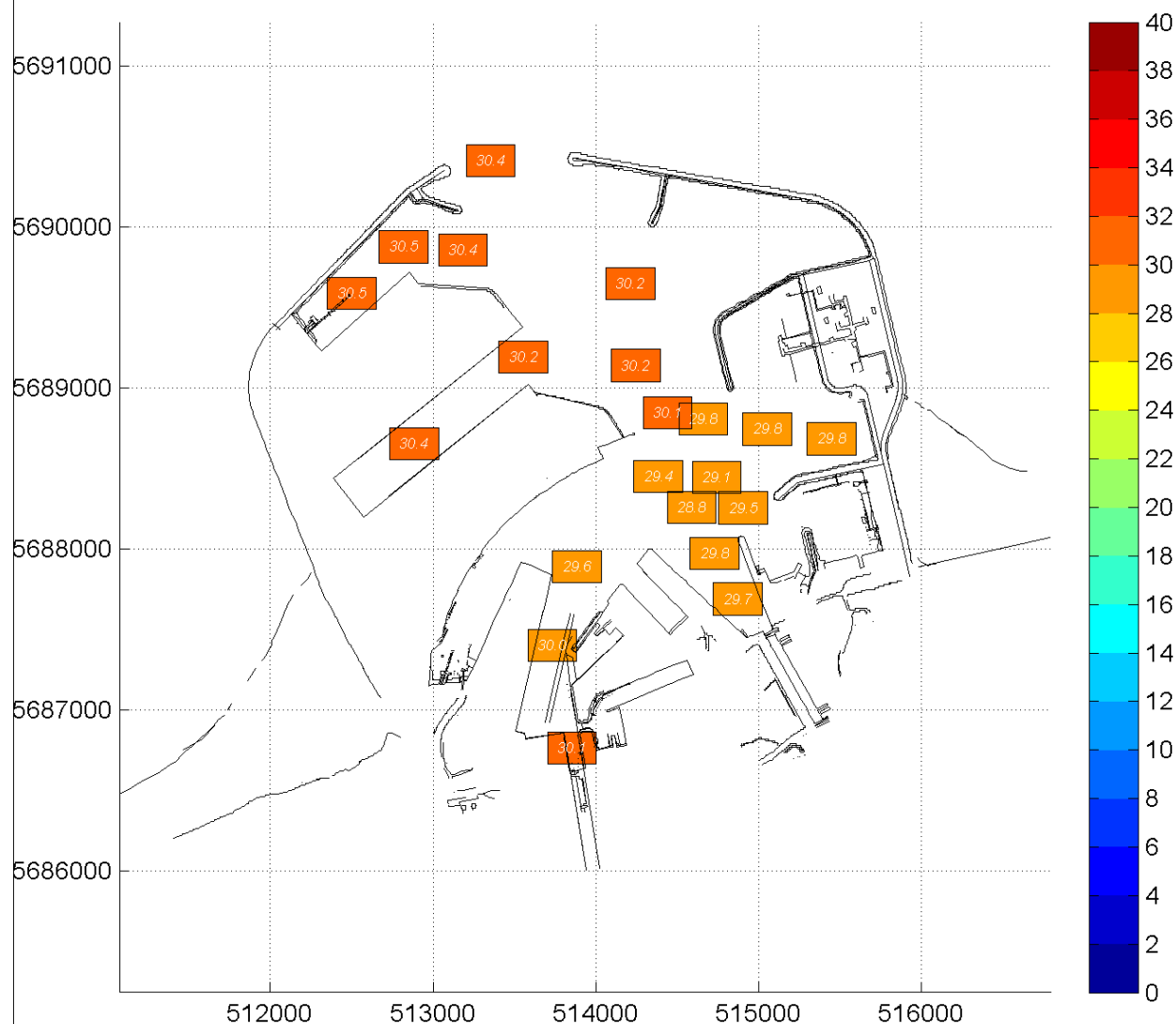
11292 - Zoutmetingen Zeebrugge

Location:

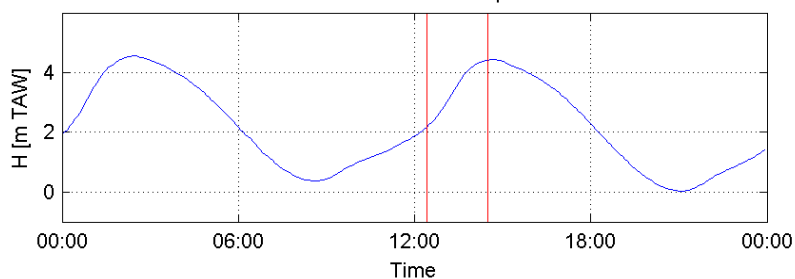
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 13-Sep-2007



Date/time:

13-Sep-2007

12:25 - 14:30

Time after HW

-1:11

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

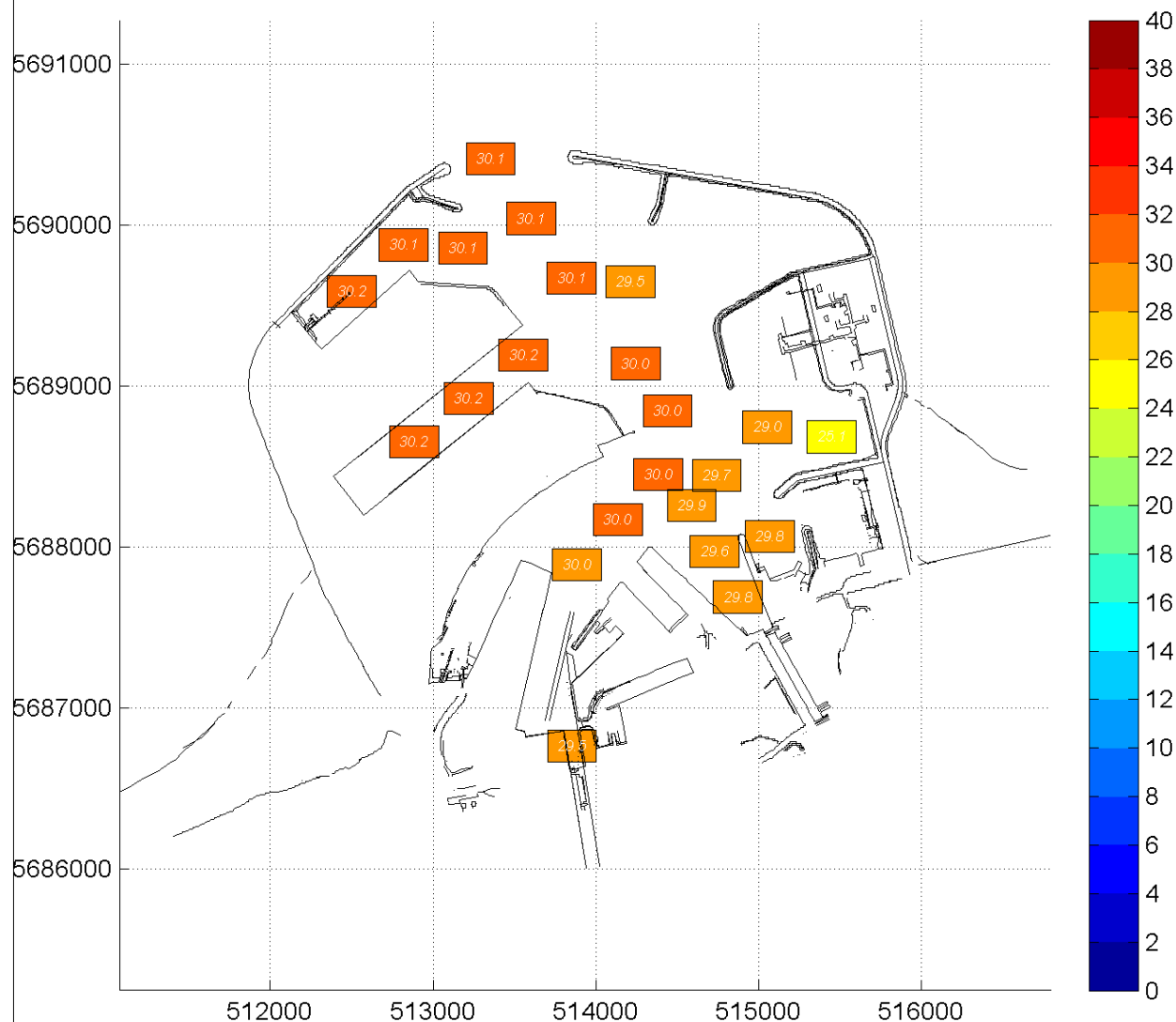
11292 - Zoutmetingen Zeebrugge

Location:

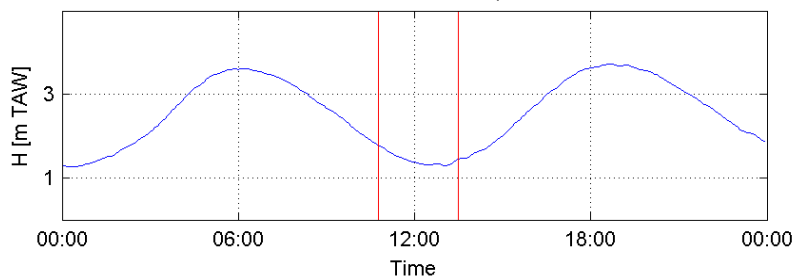
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 20-Sep-2007



HW/LW

05:50: h = 3.61m

18:35: h = 3.72m

12:20: h = 1.31m

Date/time:

20-Sep-2007

10:46 - 13:28

Time after HW

6:17

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

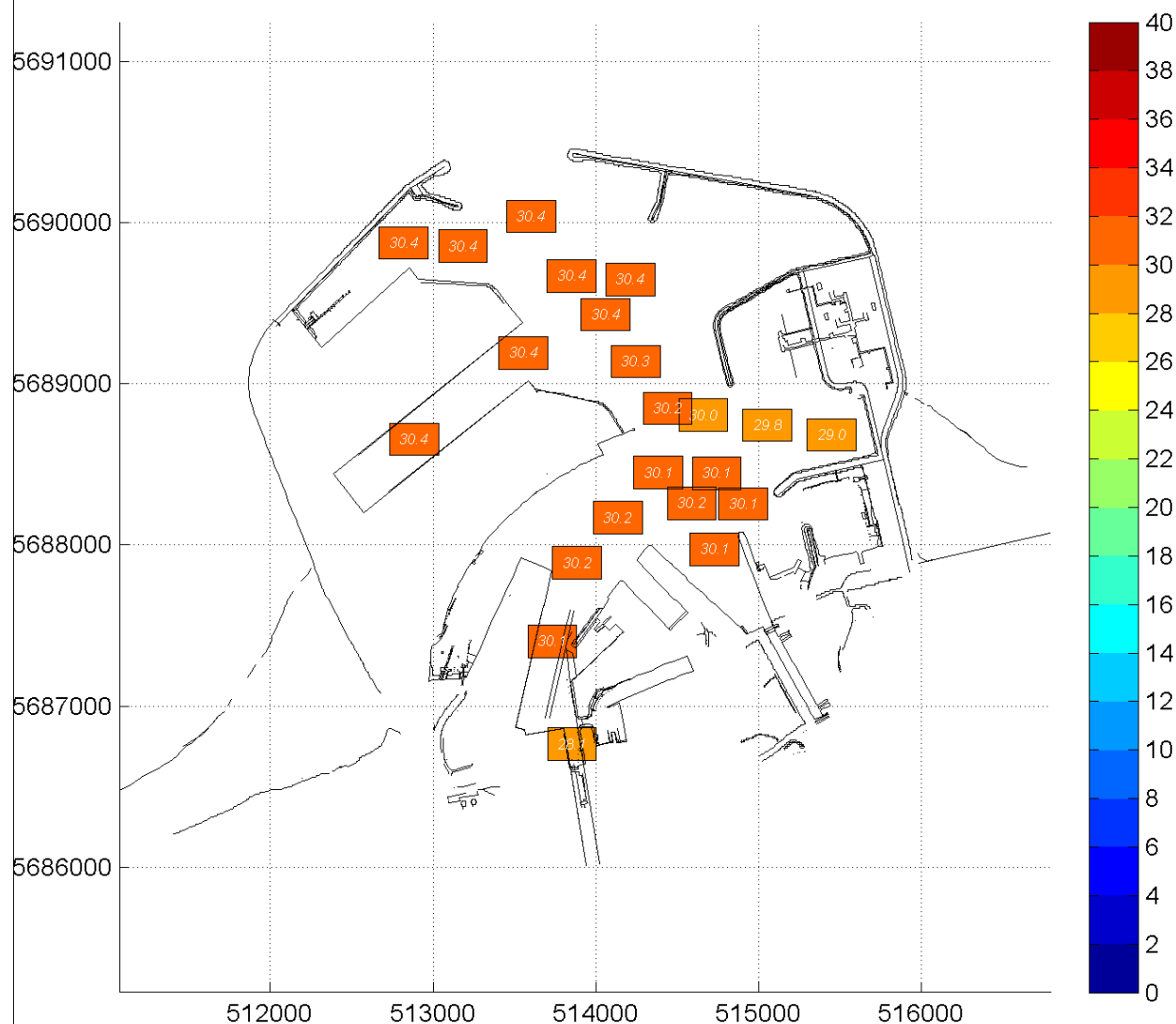
11292 - Zoutmetingen Zeebrugge

Location:

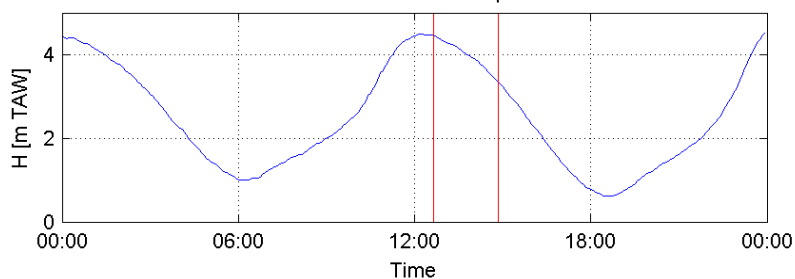
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 25-Sep-2007



Date/time:

25-Sep-2007

12:38 - 14:51

Time after HW

1:34

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

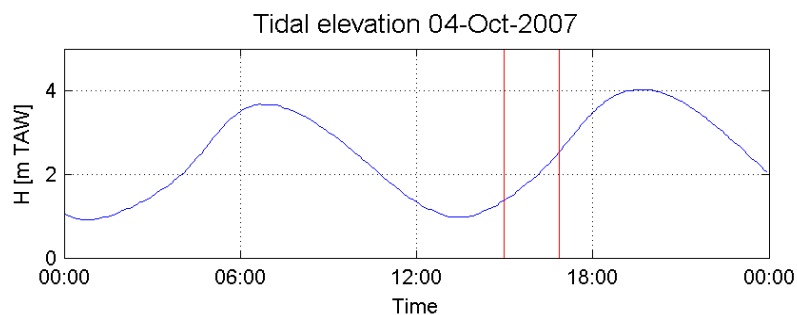
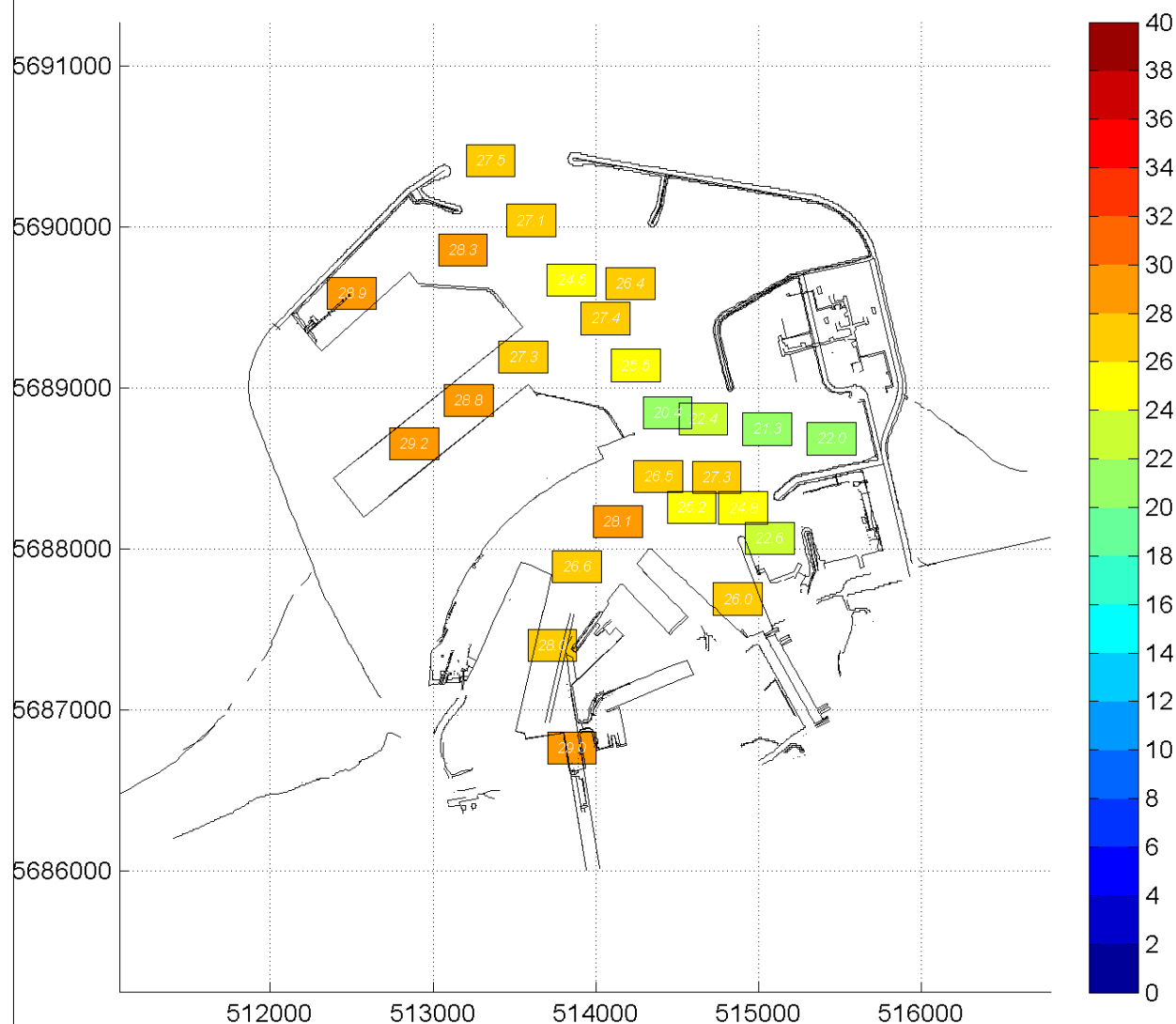
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

06:40: h = 3.68m

19:35: h = 4.03m

13:25: h = 0.97m

Date/time:

04-Oct-2007

14:58 - 16:51

Time after HW

-3:40

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

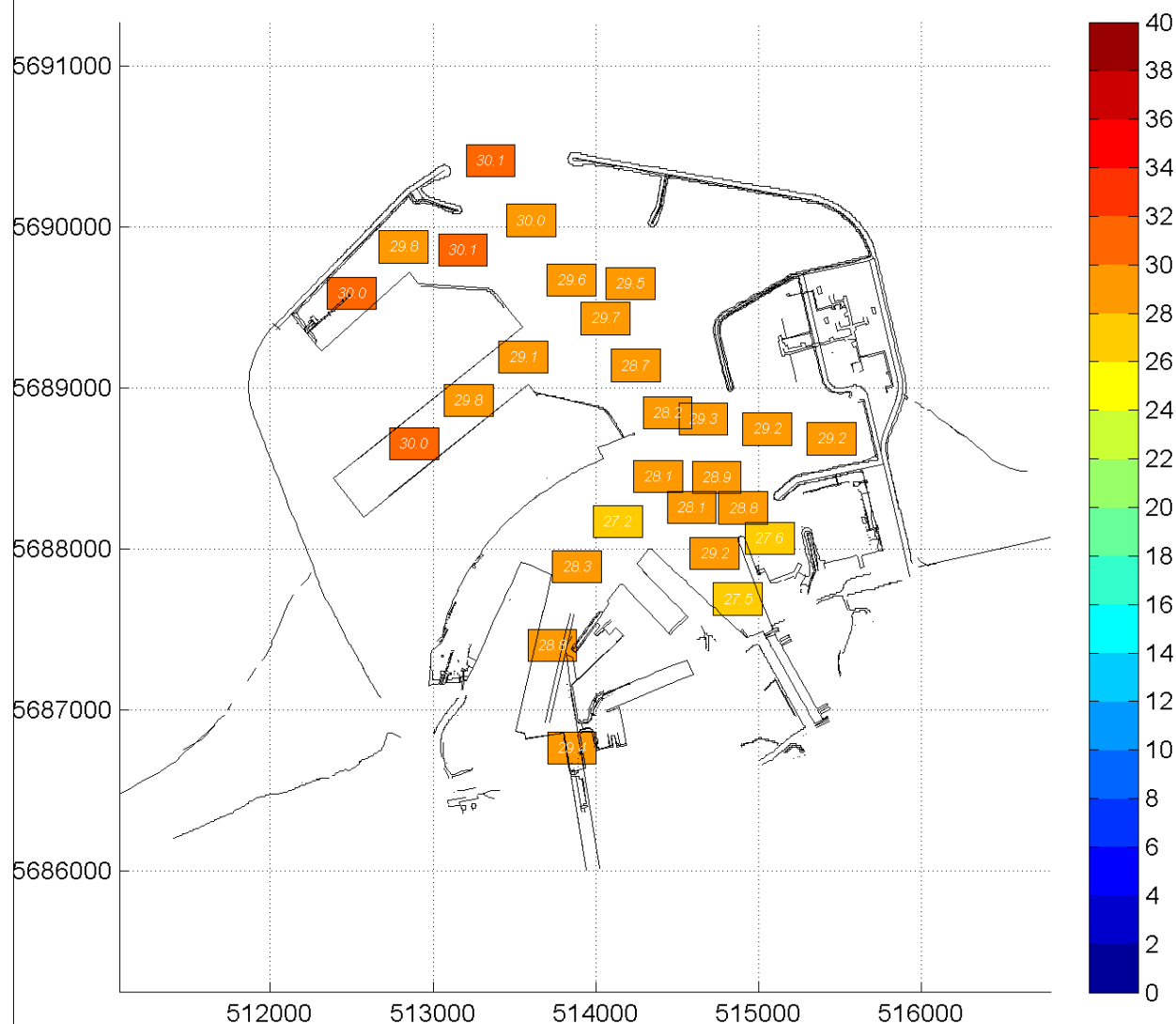
11292 - Zoutmetingen Zeebrugge

Location:

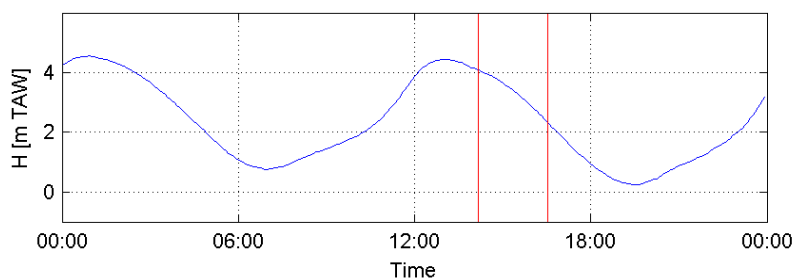
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 10-Oct-2007



00:55: h = 4.55m  
13:00: h = 4.44m  
06:55: h = 0.76m

Date/time:

10-Oct-2007

14:09 - 16:31

Time after HW

2:20

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

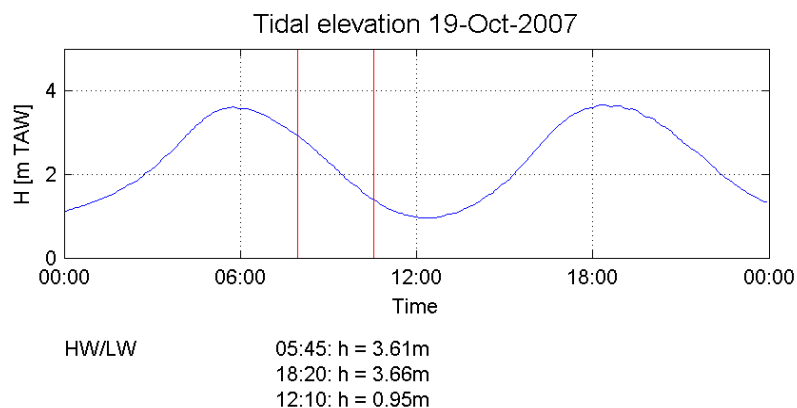
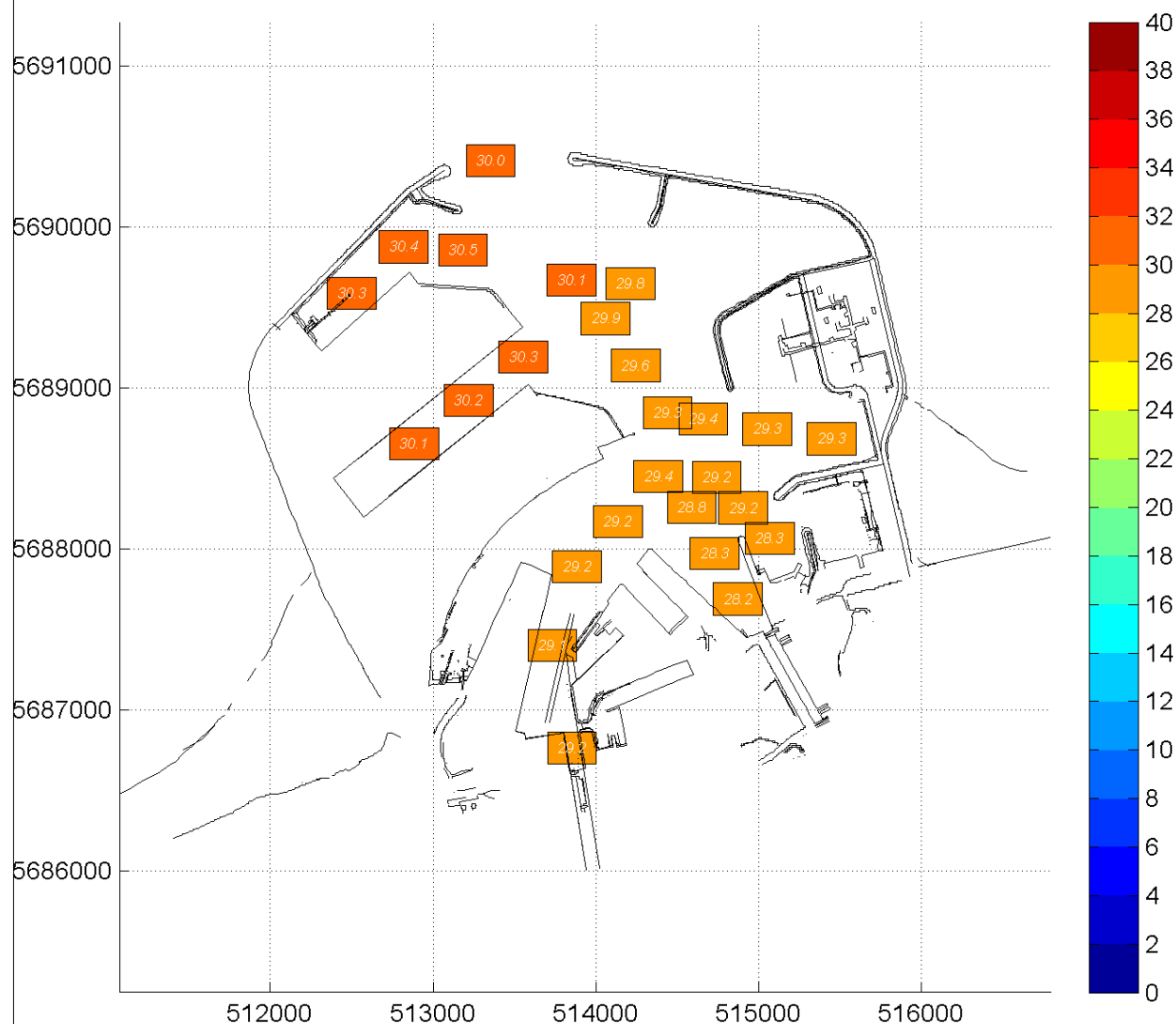
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

19-Oct-2007

07:57 - 10:32

Time after HW

3:30

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

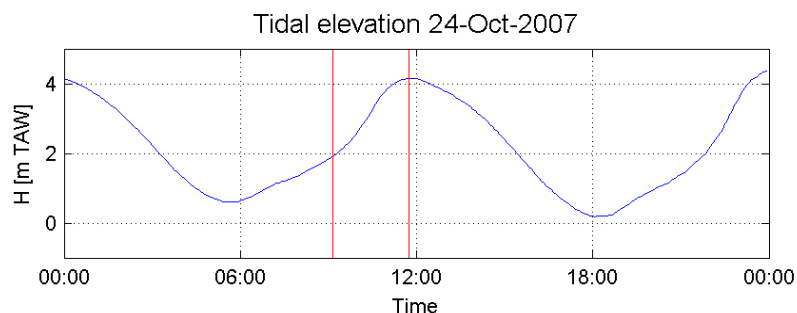
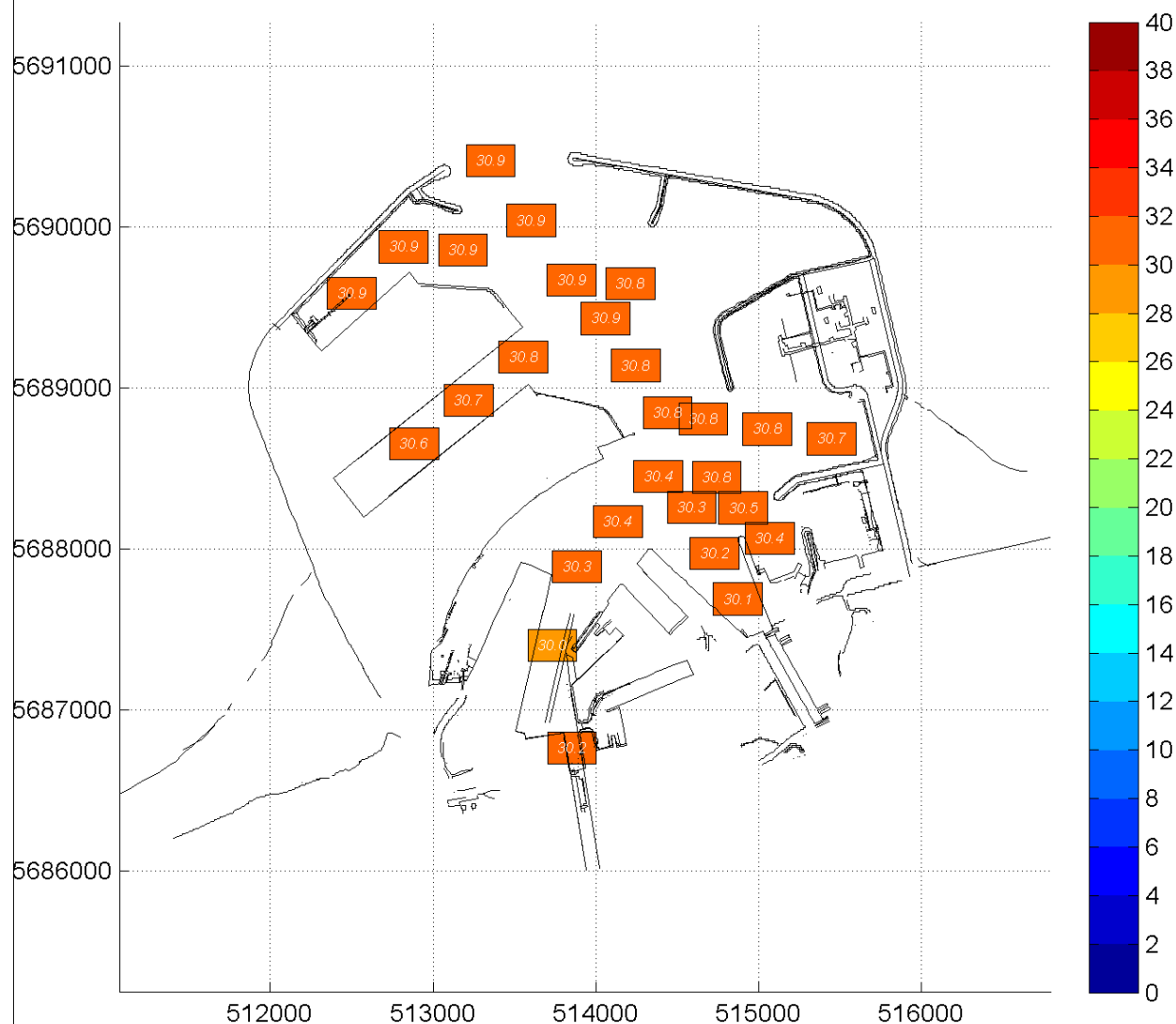
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

11:50: h = 4.16m

00:15: h = NaNm

18:05: h = 0.18m

Date/time:

24-Oct-2007

09:09 - 11:44

Time after HW

-1:23

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

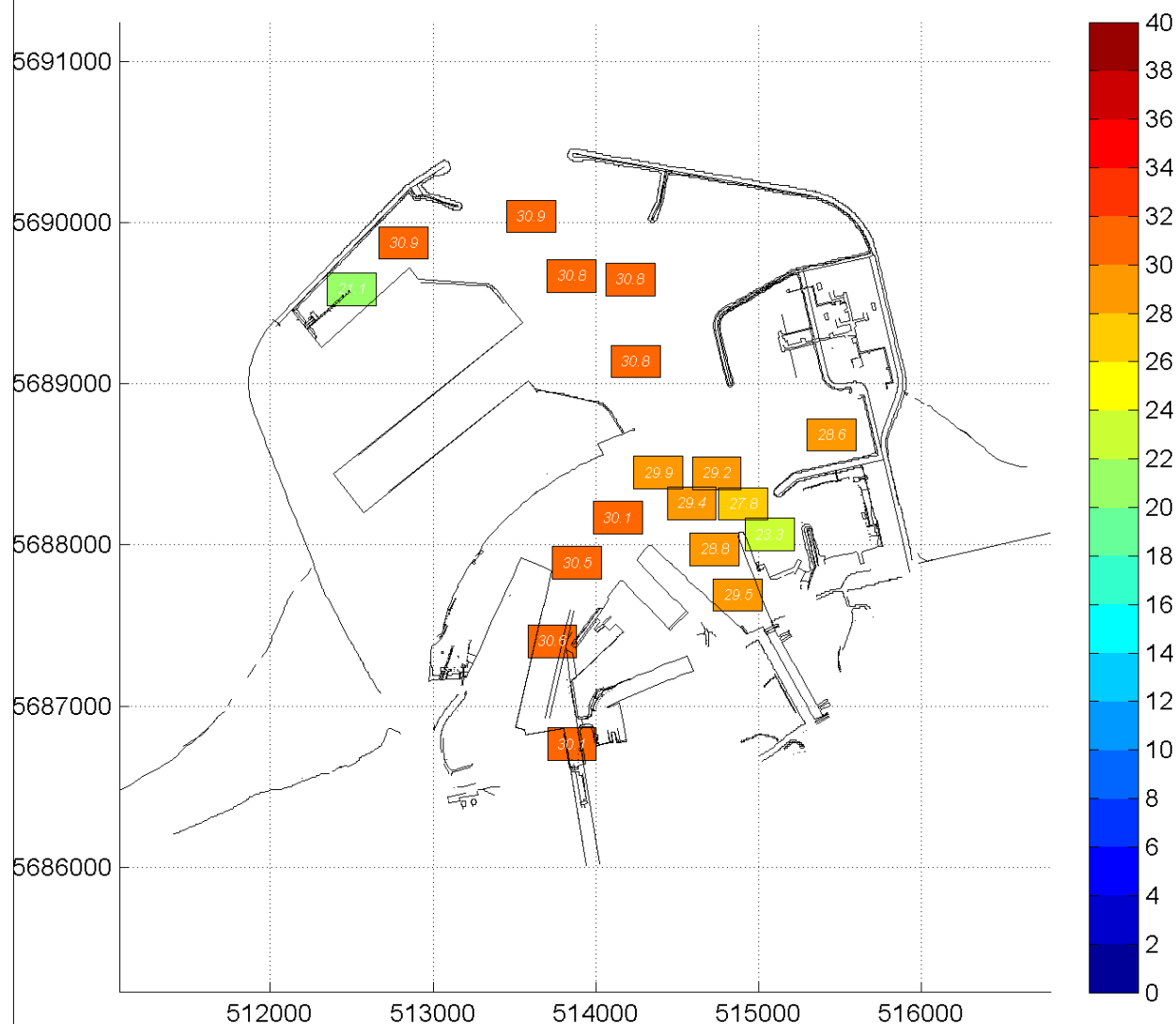
11292 - Zoutmetingen Zeebrugge

Location:

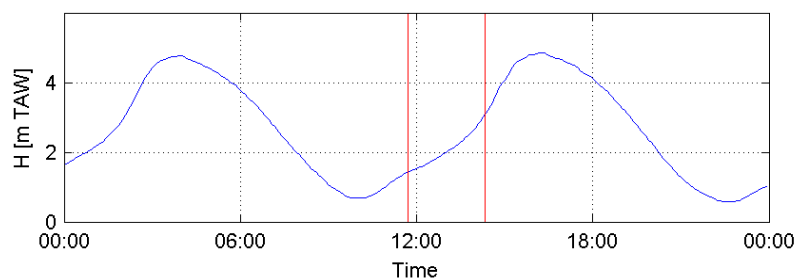
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 30-Oct-2007



HW/LW

03:55: h = 4.77m

16:15: h = 4.85m

10:00: h = 0.68m

Date/time:

30-Oct-2007

11:42 - 14:20

Time after HW

-3:13

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

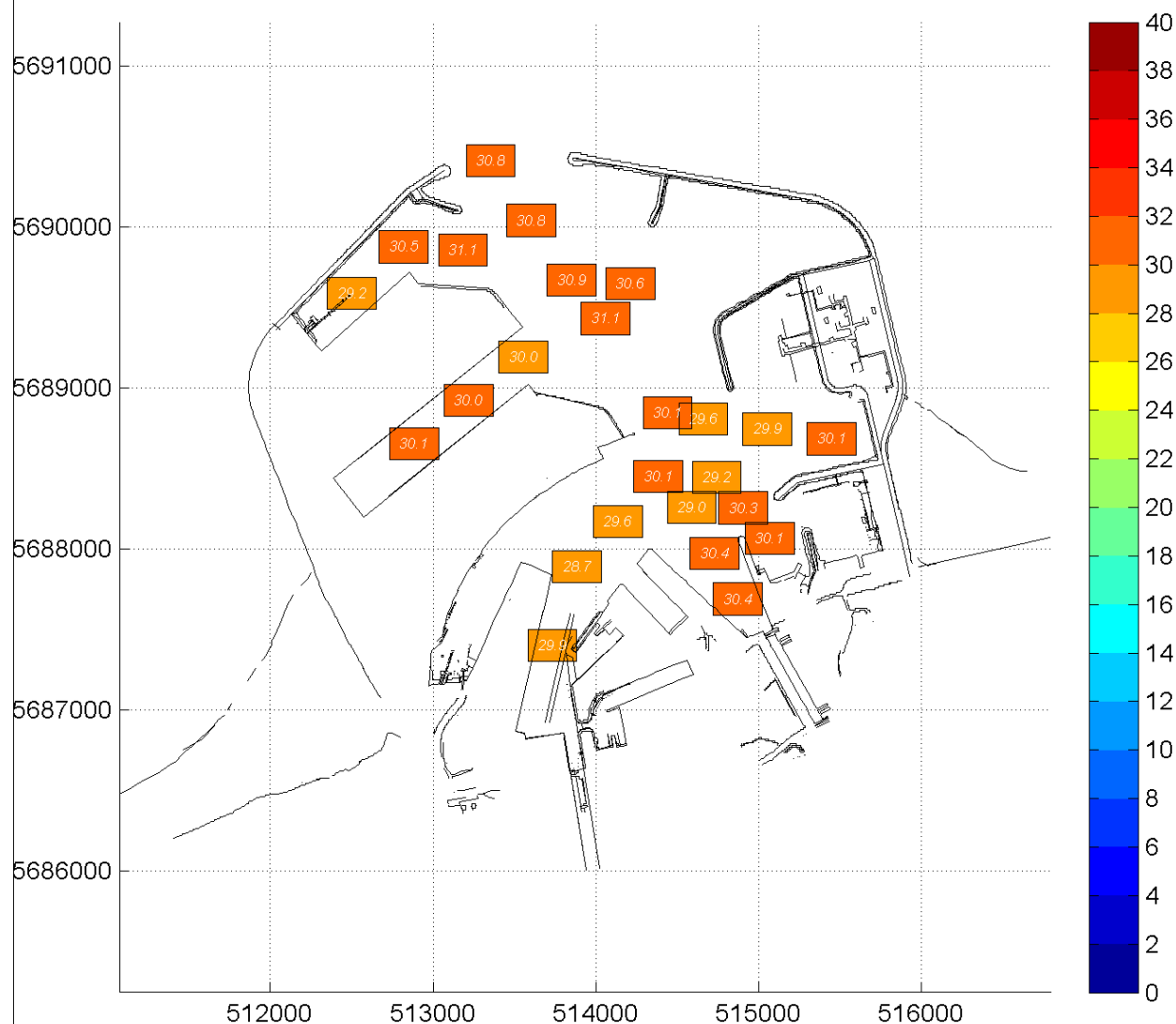
11292 - Zoutmetingen Zeebrugge

Location:

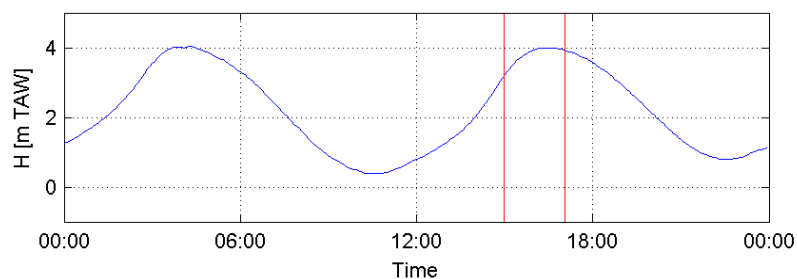
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 15-Nov-2007



HW/LW

03:50: h = 4.02m

16:15: h = 4m

10:25: h = 0.38m

Date/time:

15-Nov-2007

14:59 - 17:02

Time after HW

-0:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

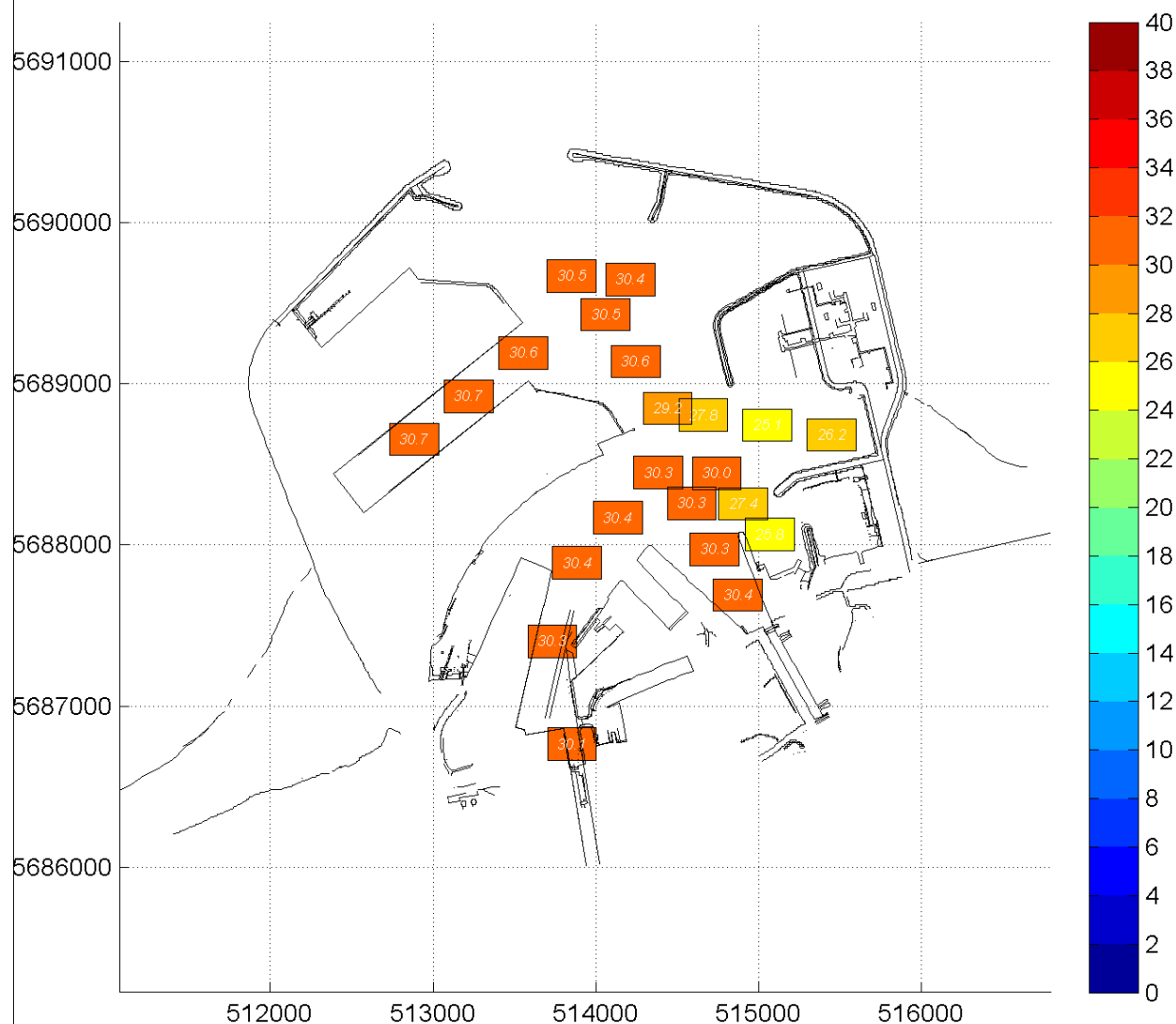
11292 - Zoutmetingen Zeebrugge

Location:

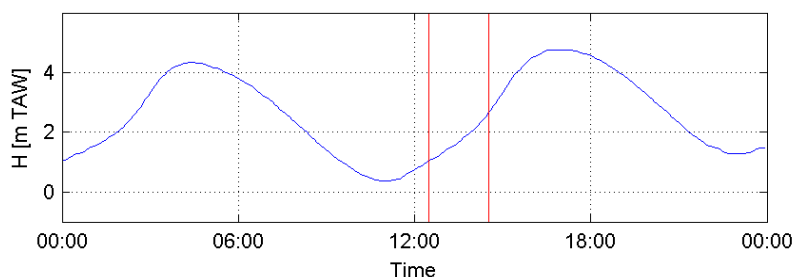
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 29-Nov-2007



Date/time:

29-Nov-2007

12:28 - 14:31

Time after HW

-3:04

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

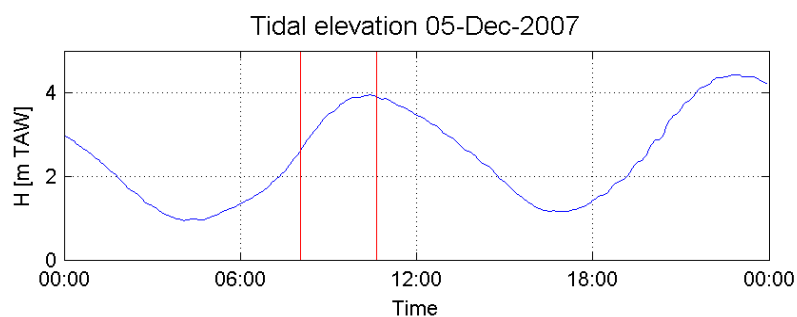
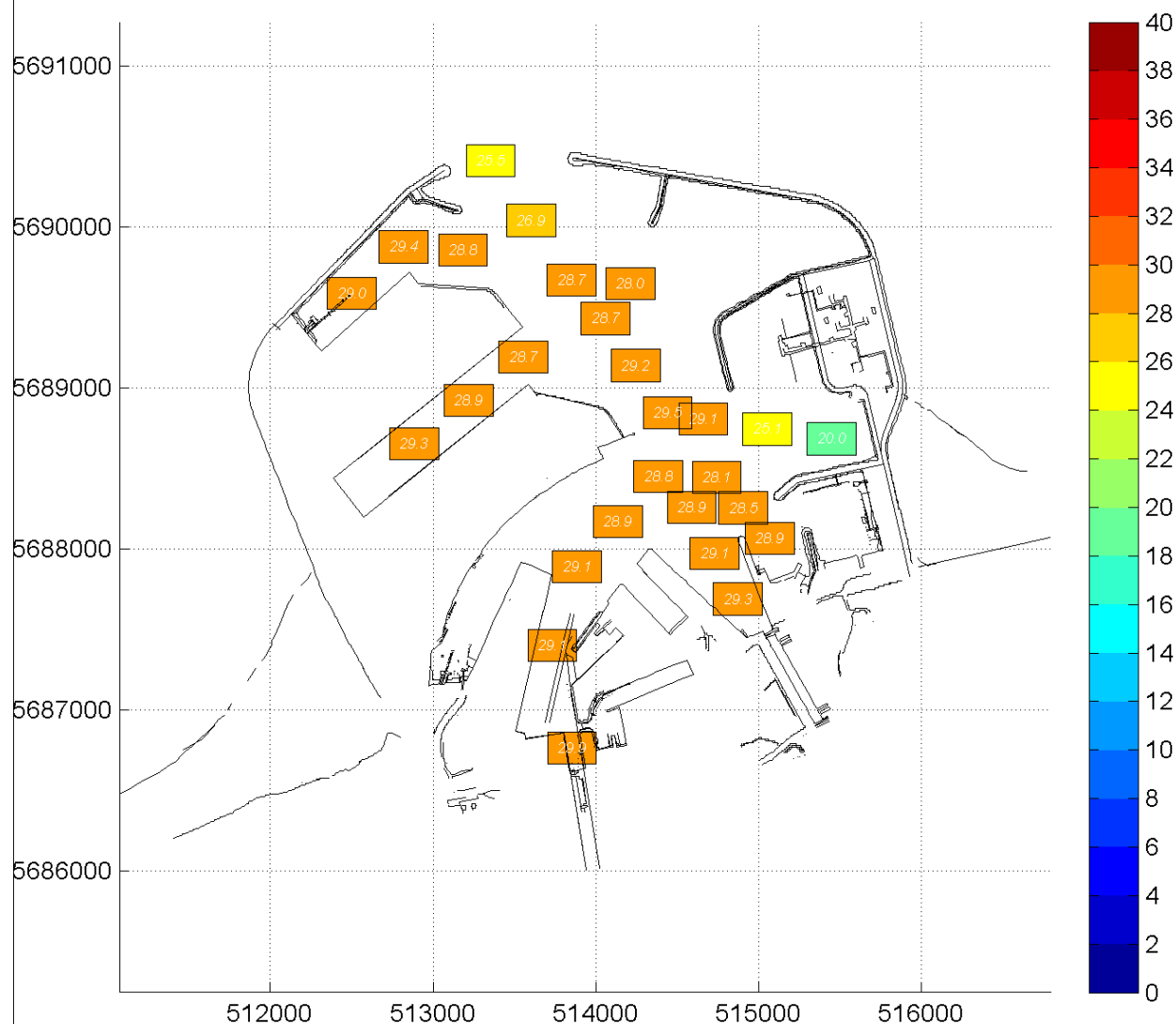
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

05-Dec-2007

08:03 - 10:38

Time after HW

-0:29

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

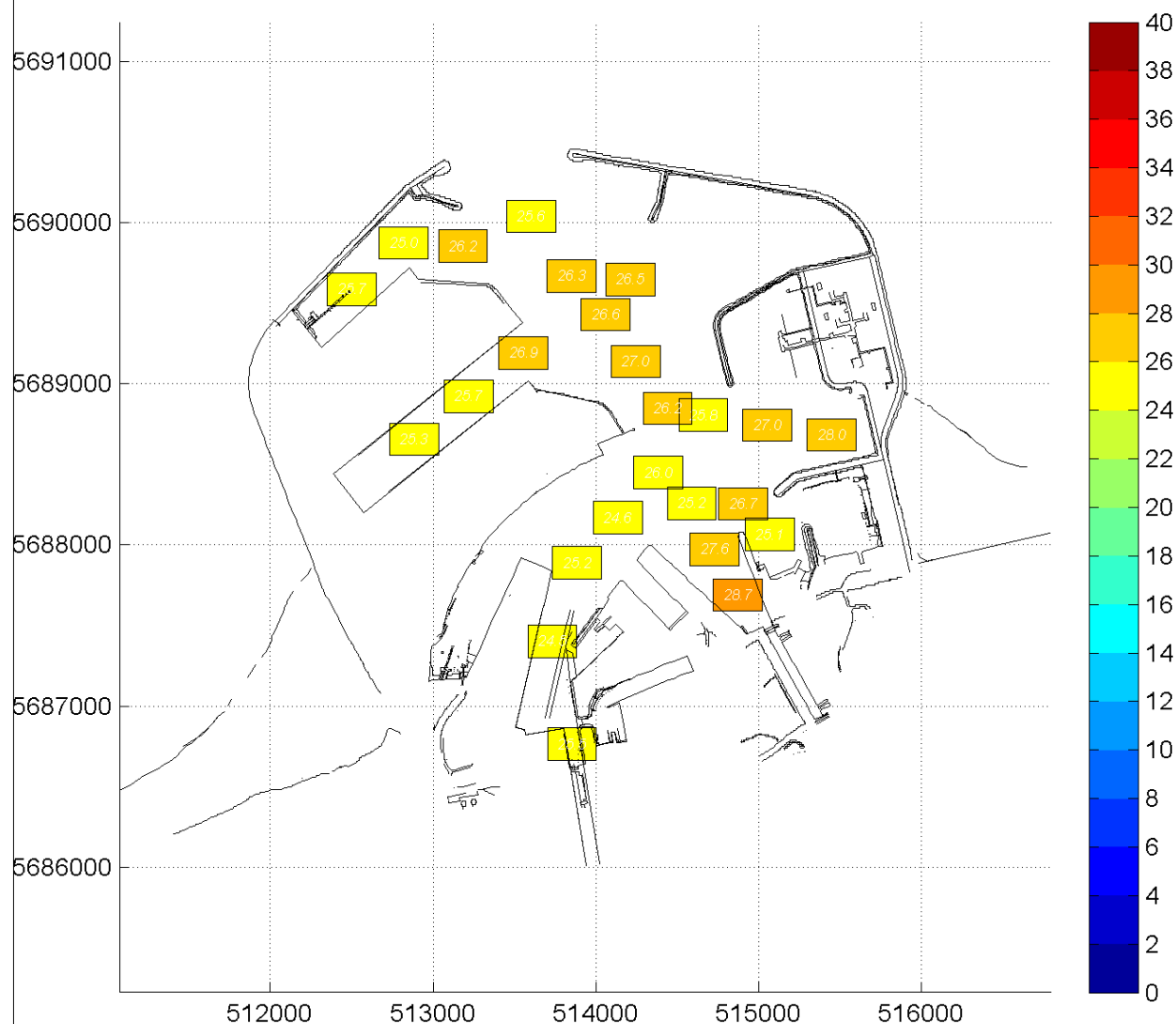
11292 - Zoutmetingen Zeebrugge

Location:

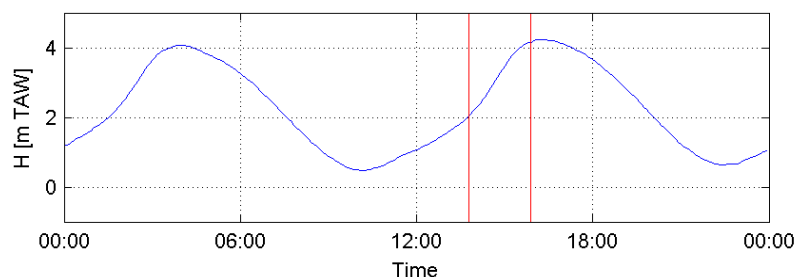
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 14-Dec-2007



HW/LW

03:55: h = 4.07m

16:10: h = 4.23m

10:05: h = 0.48m

Date/time:

14-Dec-2007

13:46 - 15:53

Time after HW

-1:19

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

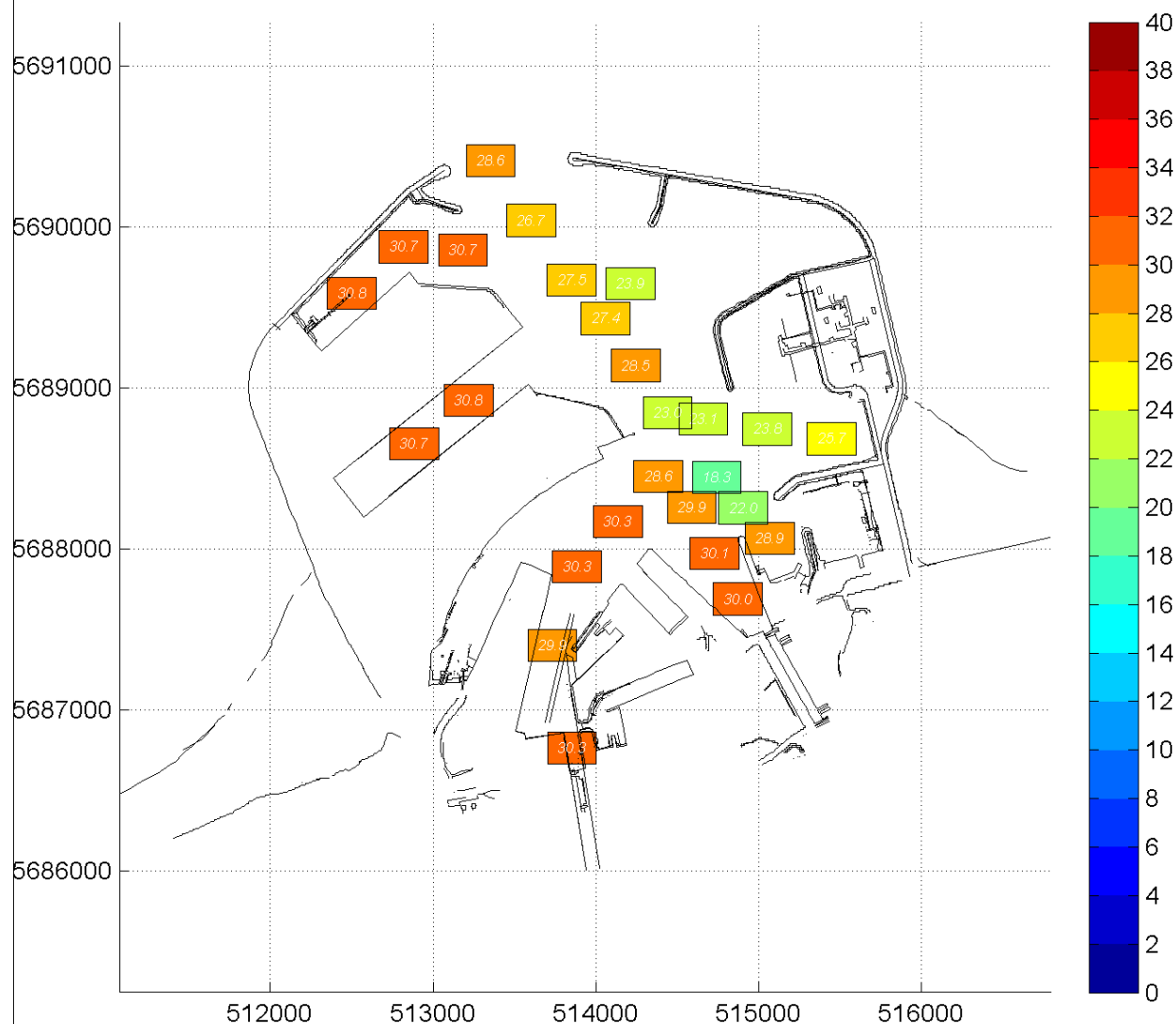
11292 - Zoutmetingen Zeebrugge

Location:

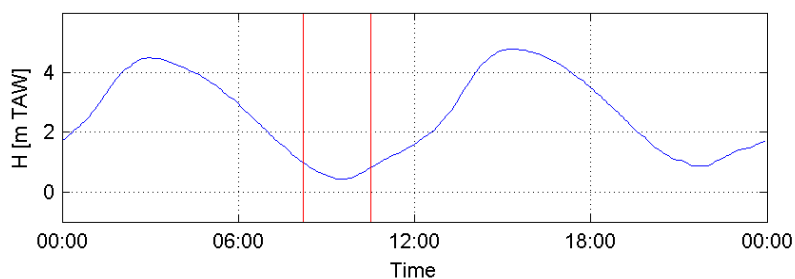
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 11-Jan-2008



02:55: h = 4.49m

15:20: h = 4.8m

09:30: h = 0.43m

Date/time:

11-Jan-2008

08:12 - 10:29

Time after HW

6:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

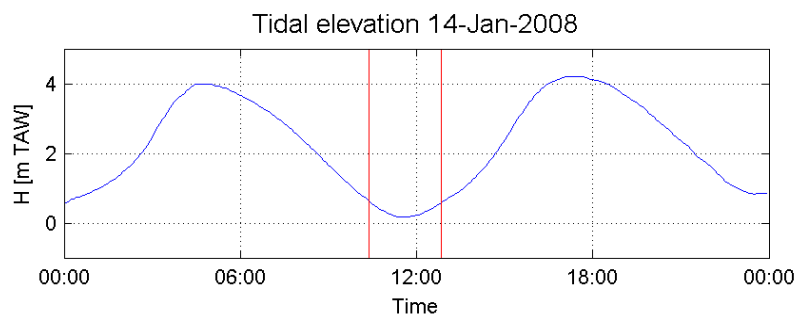
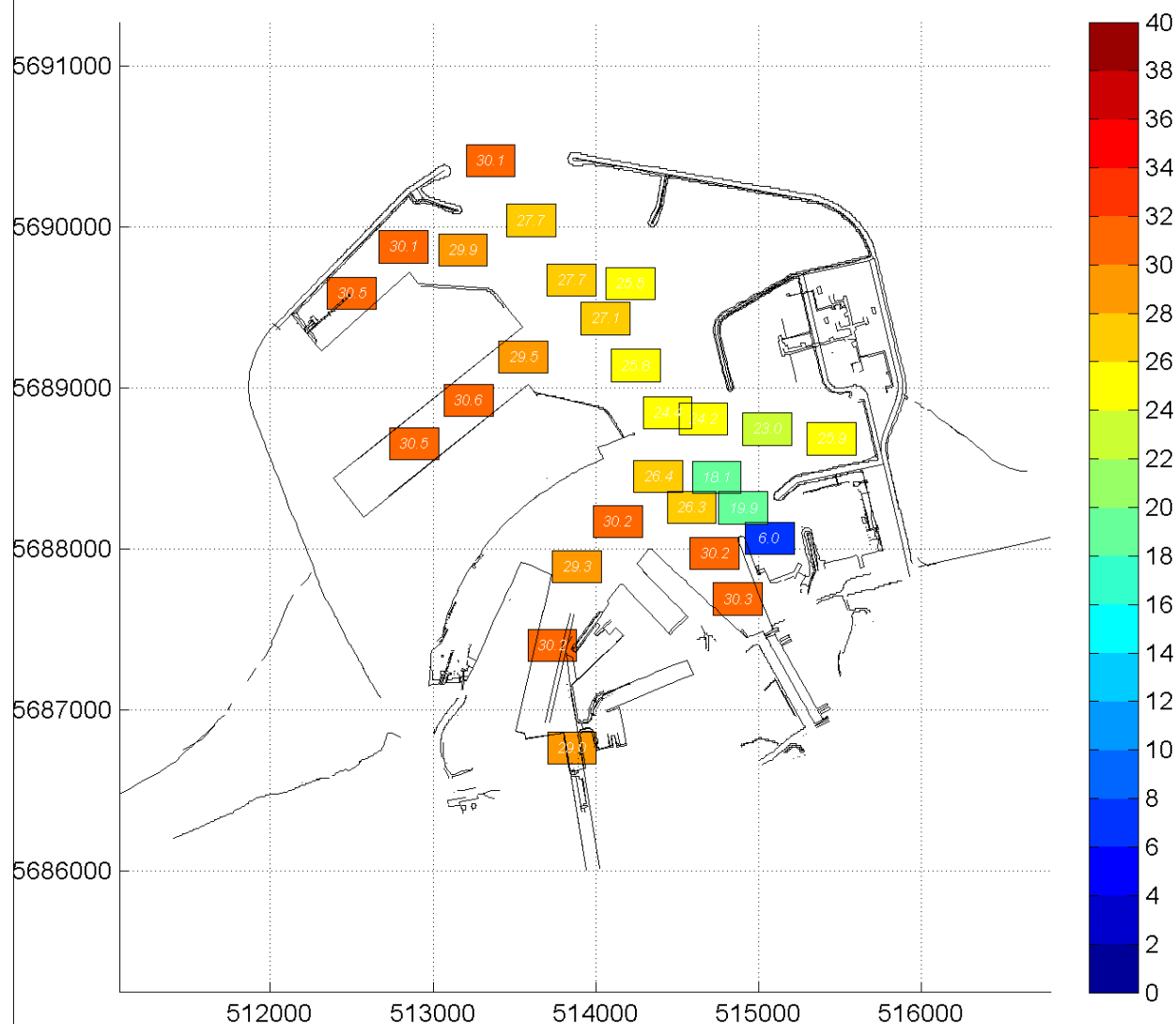
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

14-Jan-2008

10:23 - 12:49

Time after HW

-5:43

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

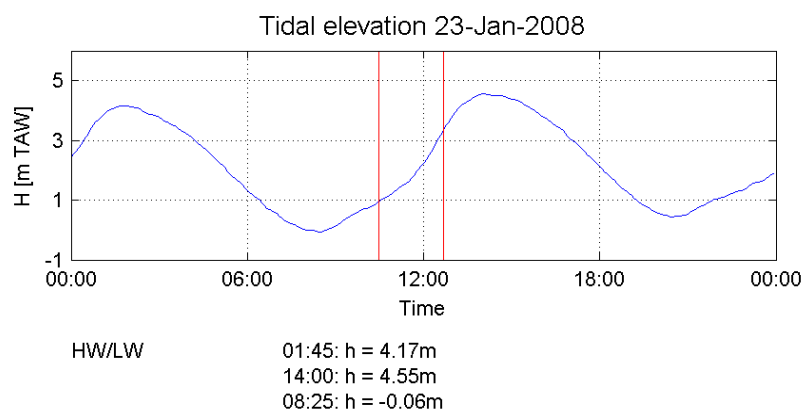
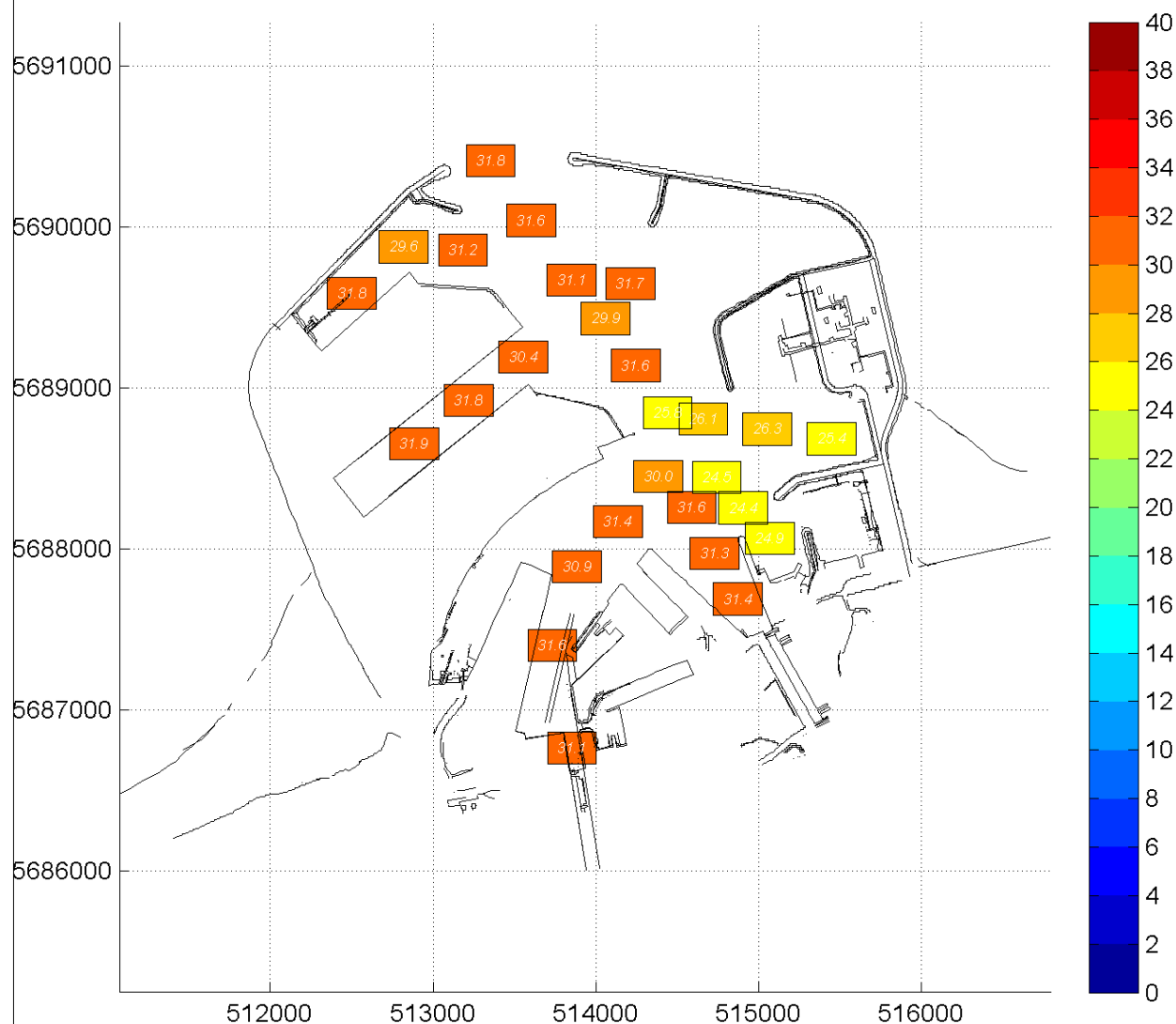
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

23-Jan-2008

10:28 - 12:41

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

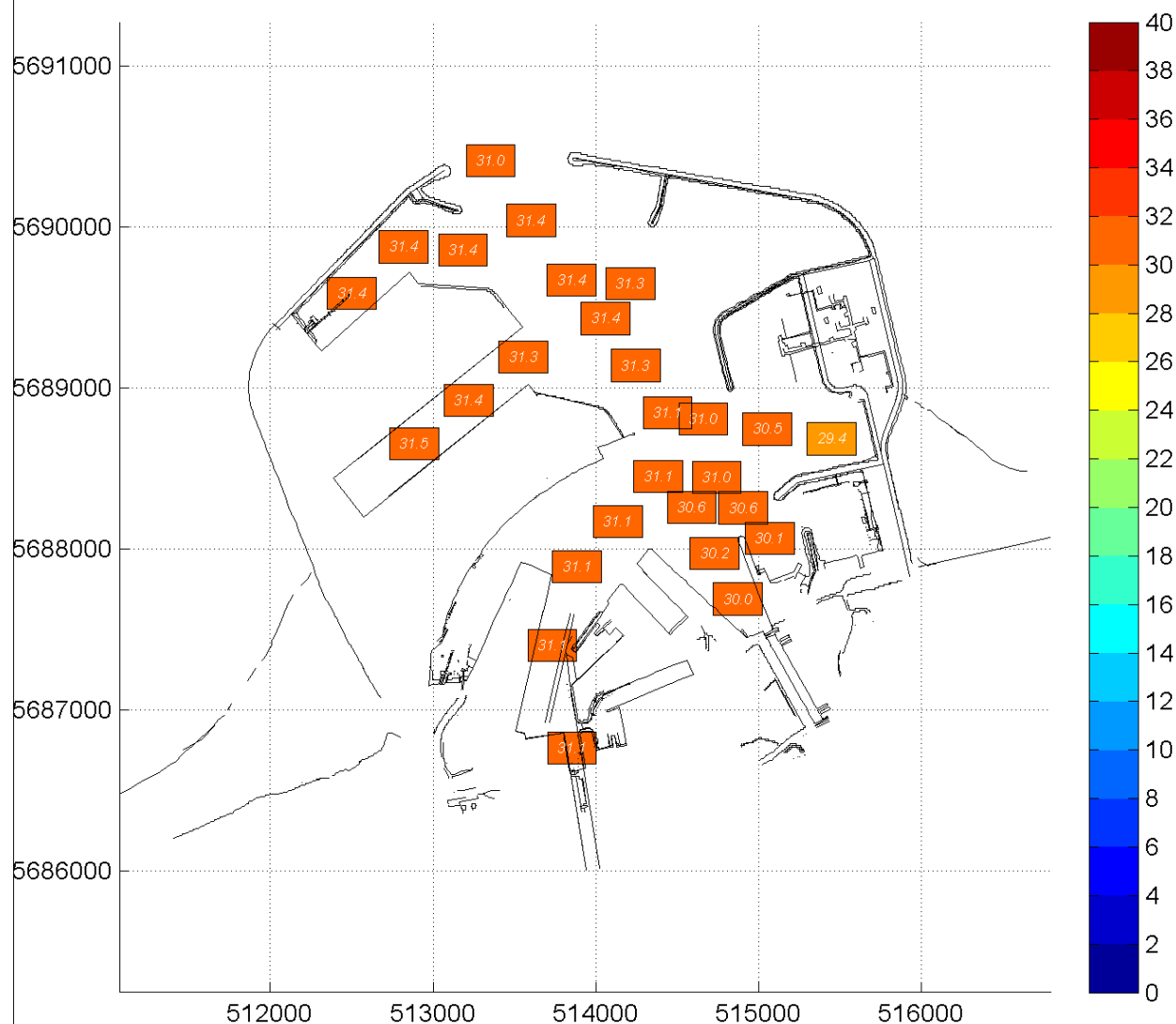
11292 - Zoutmetingen Zeebrugge

Location:

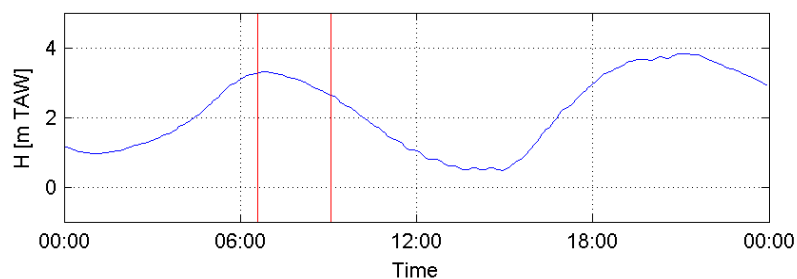
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 31-Jan-2008



HW/LW

06:45: h = 3.31m

19:45: h = 3.67m

13:40: h = 0.5m

Date/time:

31-Jan-2008

06:36 - 09:04

Time after HW

1:05

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

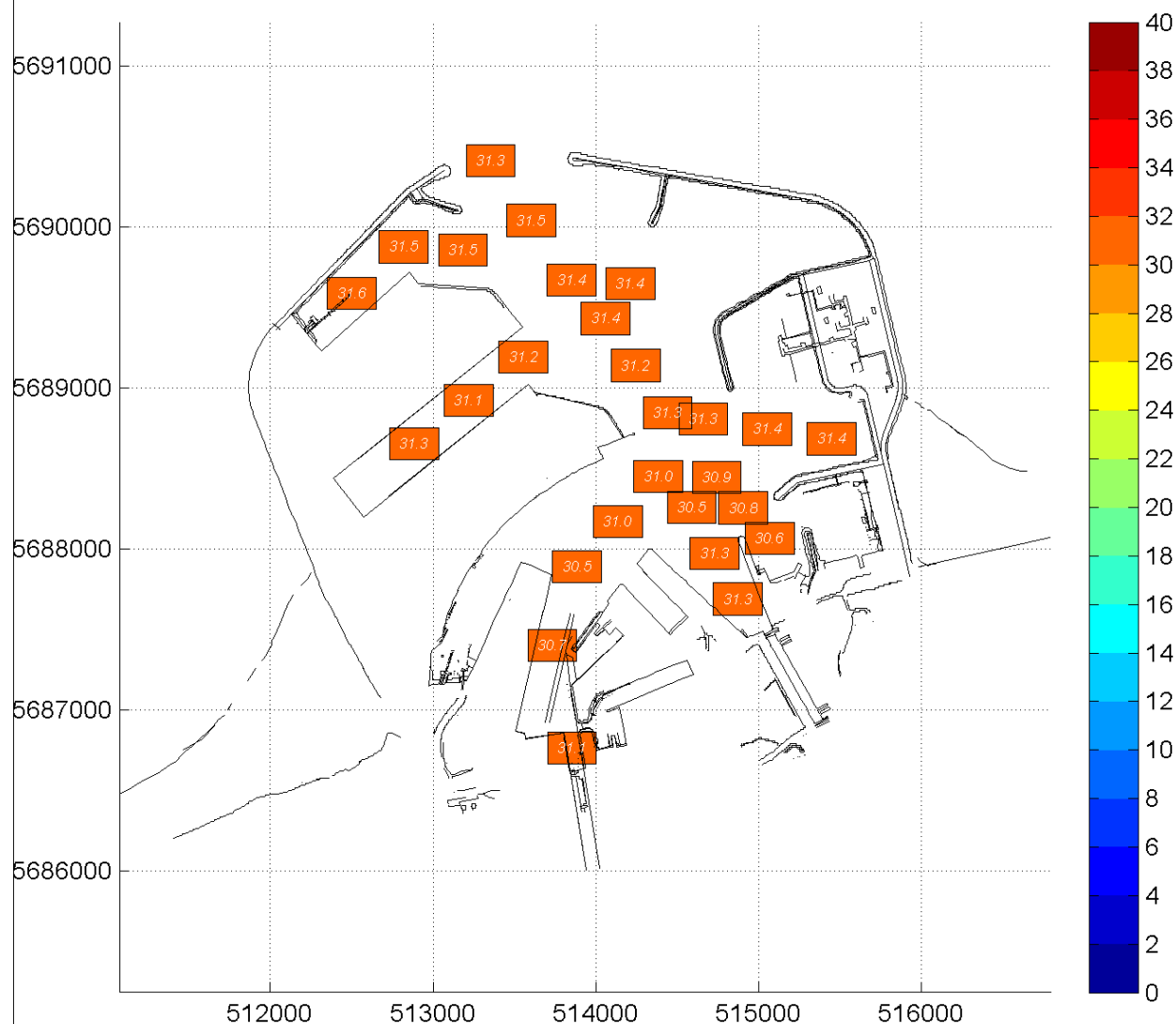
11292 - Zoutmetingen Zeebrugge

Location:

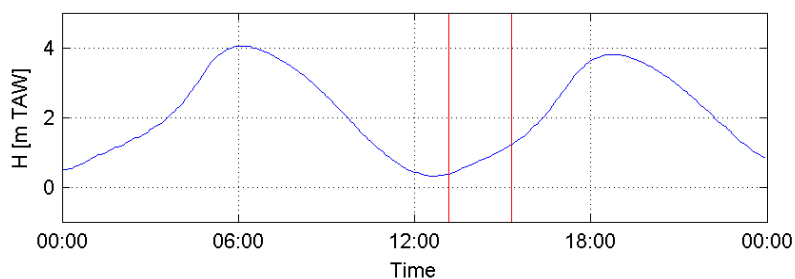
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 14-Feb-2008



HW/LW

06:00: h = 4.05m

18:40: h = 3.81m

12:30: h = 0.31m

Date/time:

14-Feb-2008

13:09 - 15:18

Time after HW

-4:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

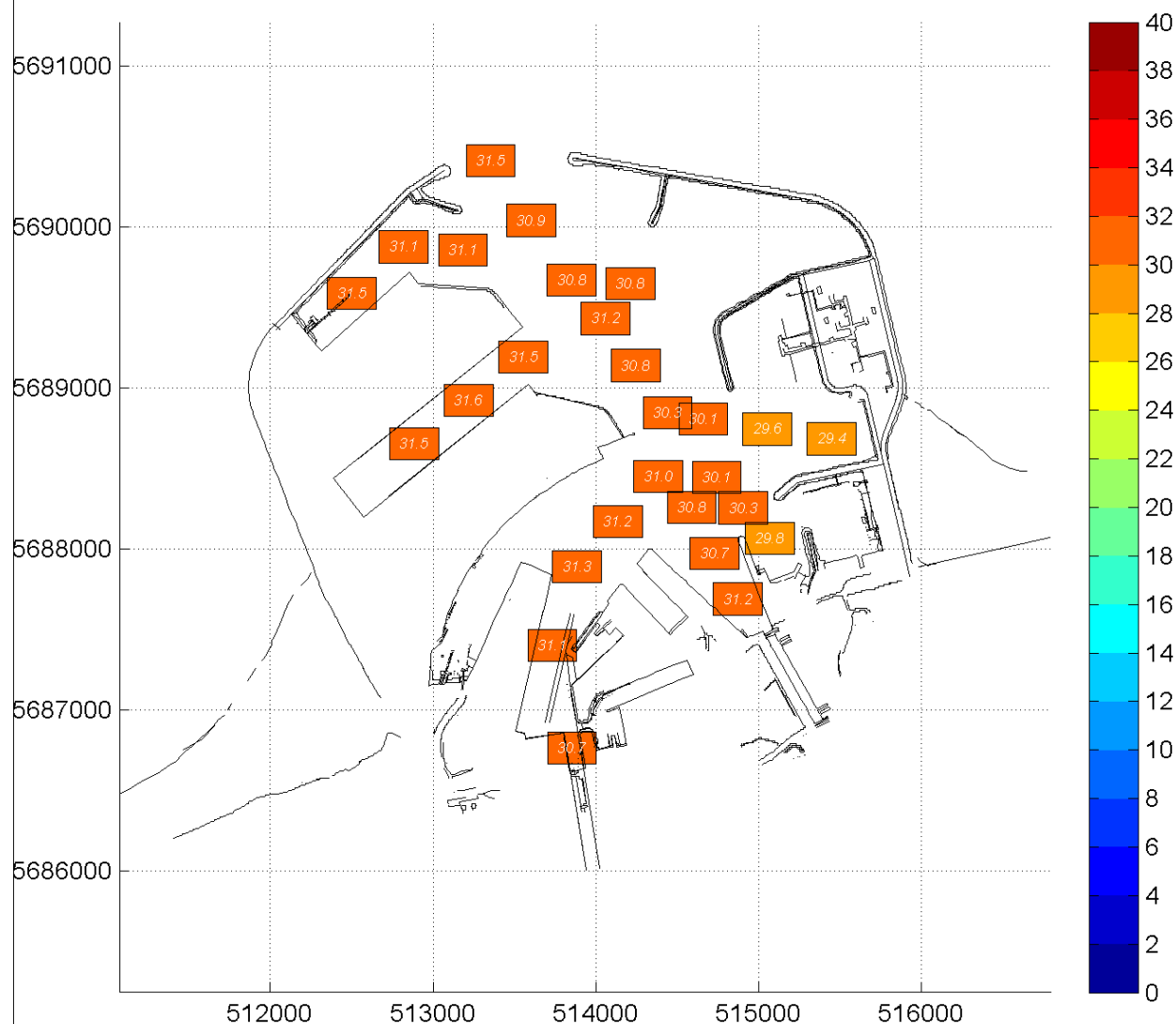
11292 - Zoutmetingen Zeebrugge

Location:

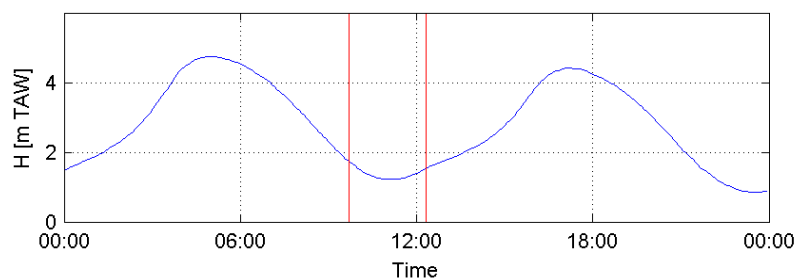
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 27-Feb-2008



HW/LW

04:50: h = 4.74m

17:10: h = 4.43m

10:55: h = 1.22m

Date/time:

27-Feb-2008

09:42 - 12:19

Time after HW

-6:09

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

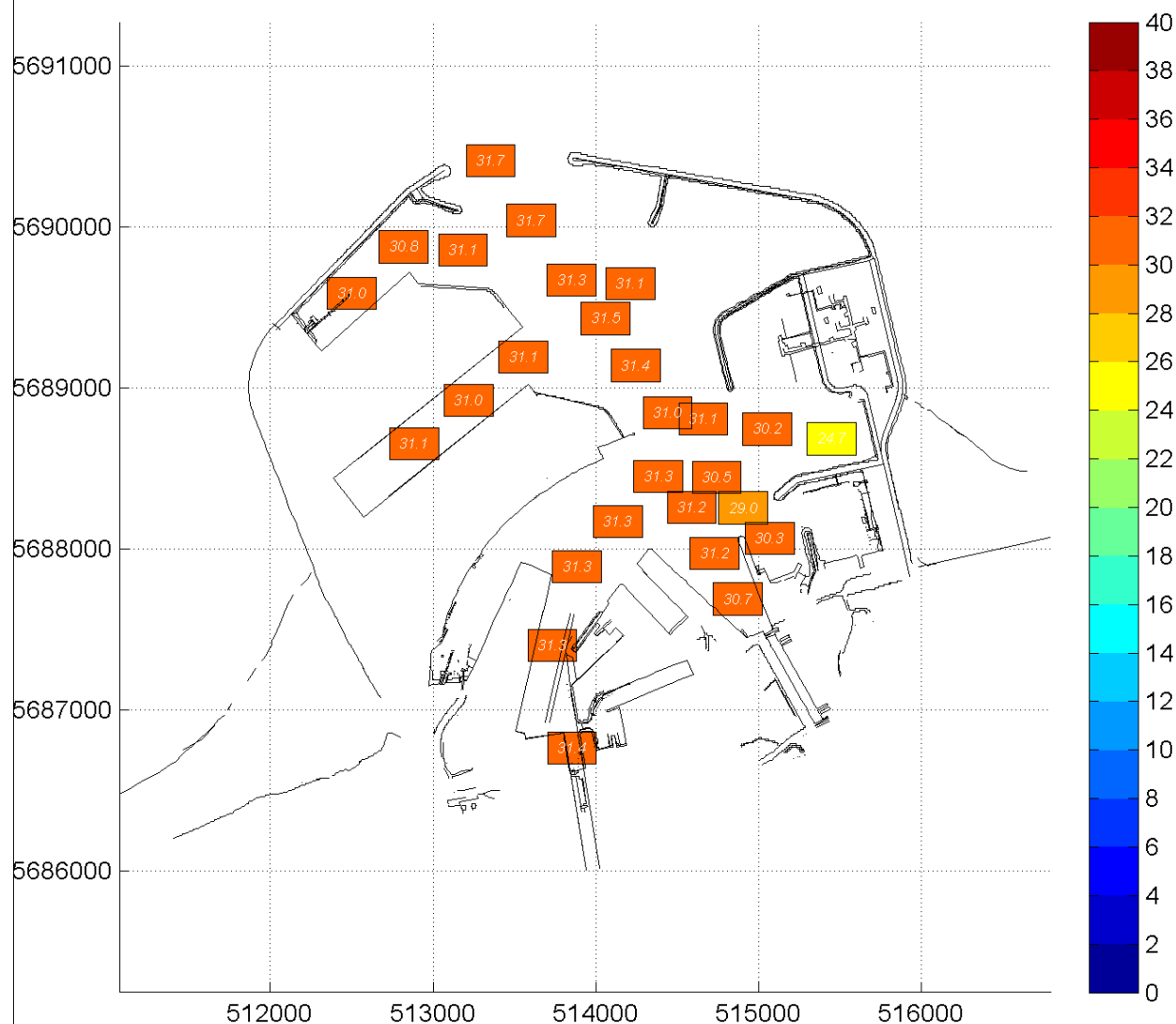
11292 - Zoutmetingen Zeebrugge

Location:

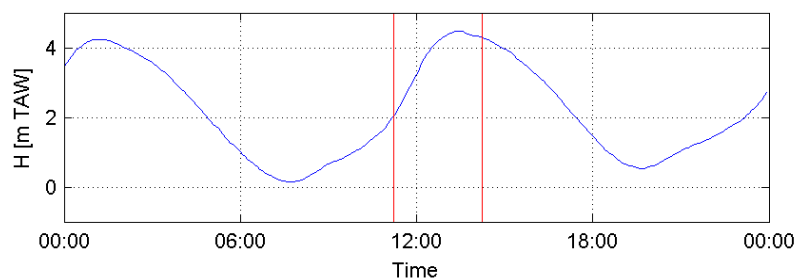
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 07-Mar-2008



01:05: h = 4.24m  
13:25: h = 4.47m  
07:35: h = 0.15m

Date/time:

07-Mar-2008

11:13 - 14:13

Time after HW

-0:41

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

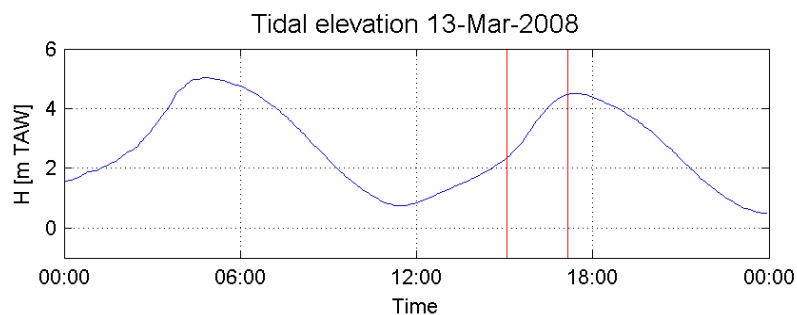
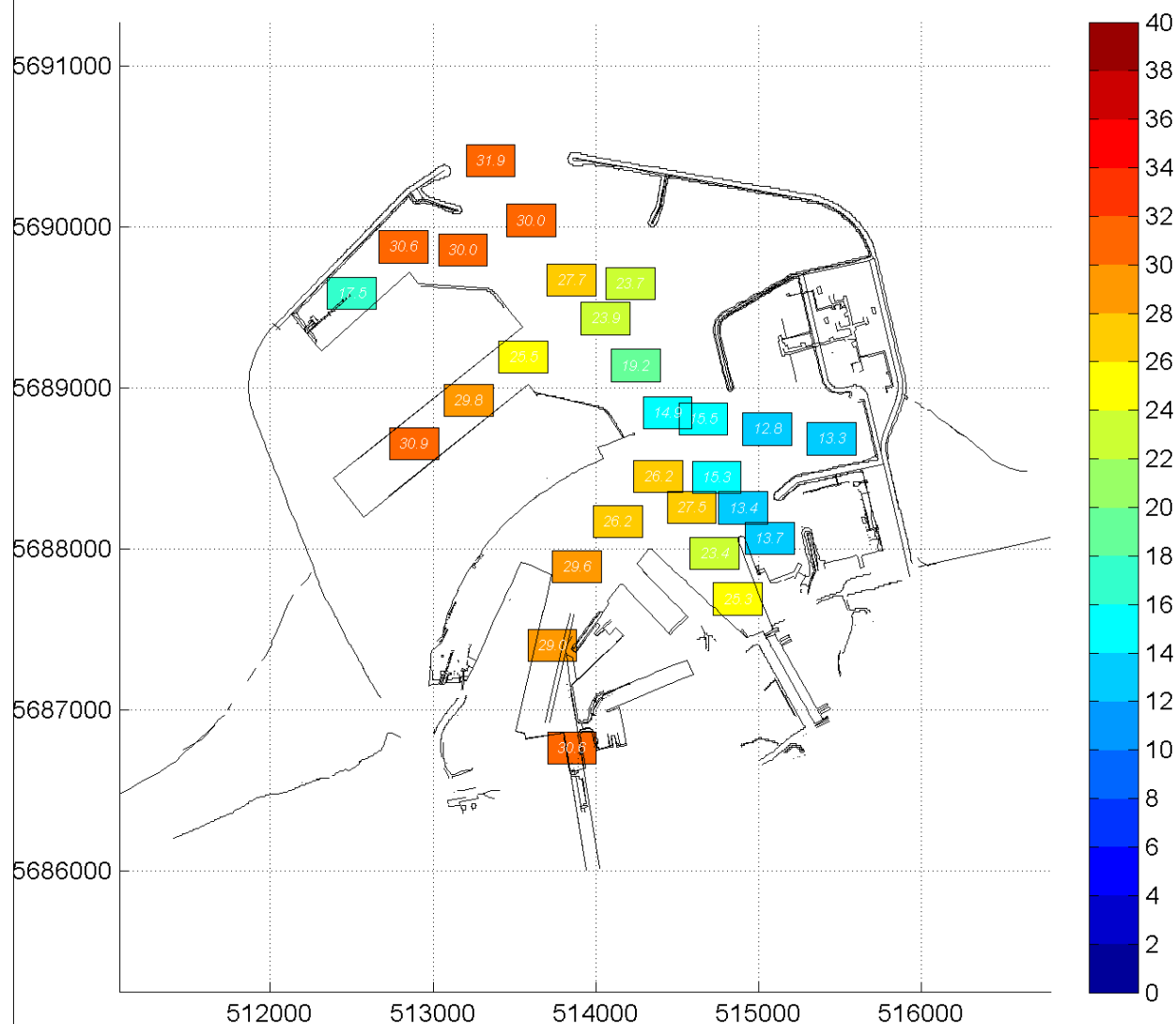
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

04:45: h = 5.03m

17:25: h = 4.51m

11:20: h = 0.74m

Date/time:

13-Mar-2008

15:05 - 17:08

Time after HW

-1:18

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

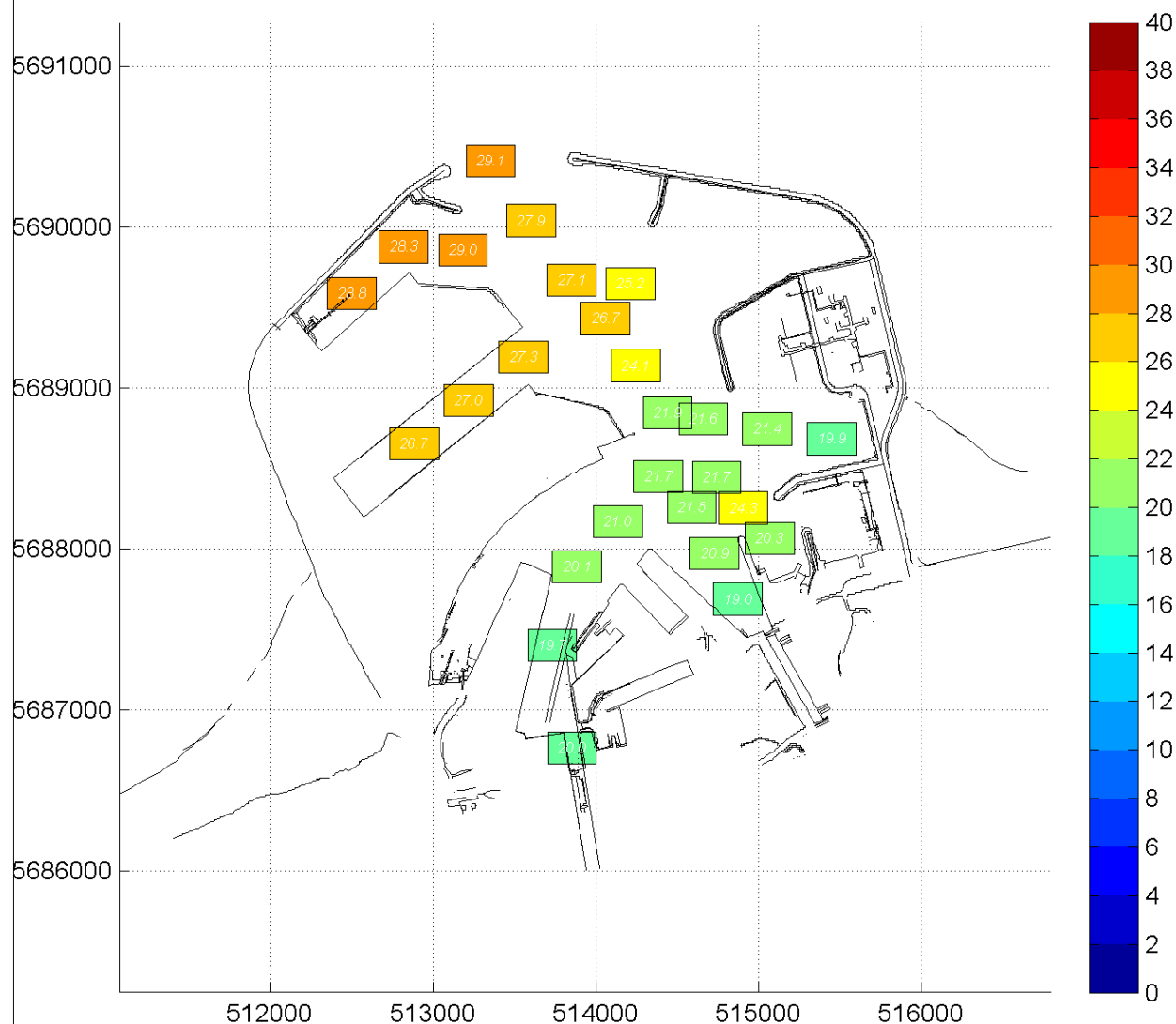
11292 - Zoutmetingen Zeebrugge

Location:

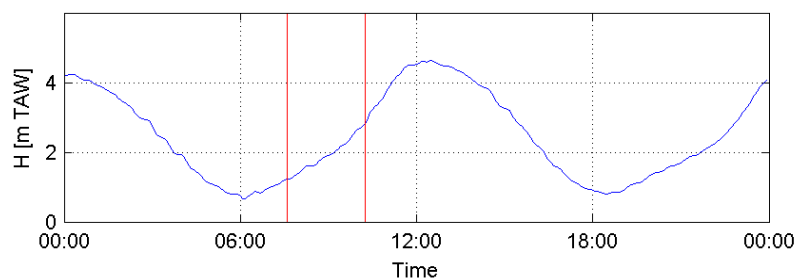
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 19-Mar-2008



HW/LW

12:10: h = 4.61m

00:40: h = NaNm

18:25: h = 0.81m

Date/time:

19-Mar-2008

07:35 - 10:15

Time after HW

-3:14

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

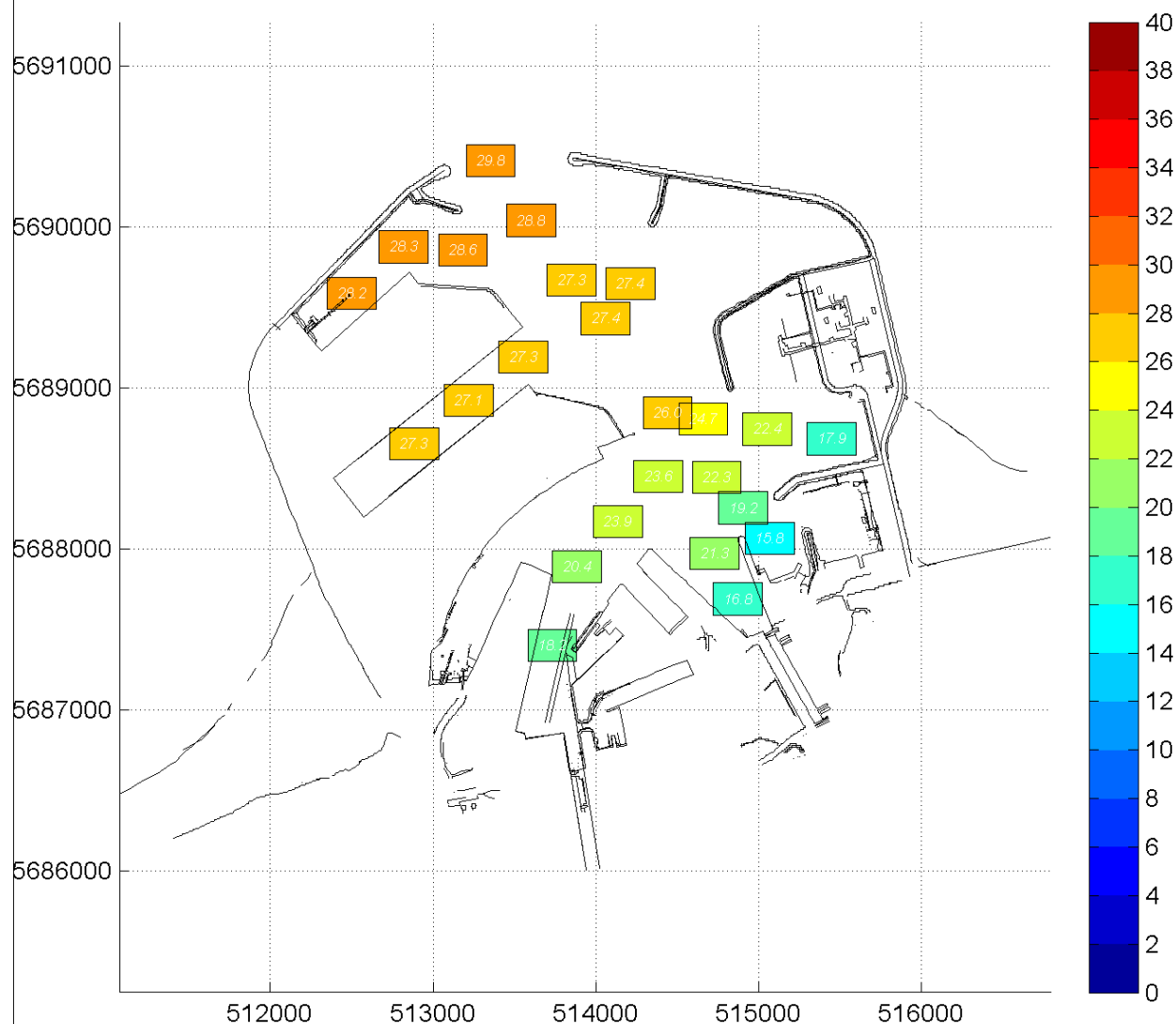
11292 - Zoutmetingen Zeebrugge

Location:

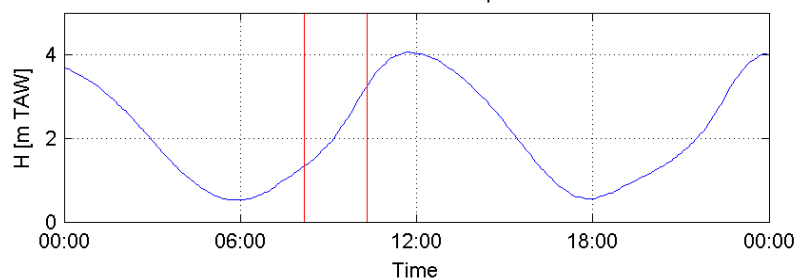
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 03-Apr-2008



Date/time:

03-Apr-2008

08:09 - 10:19

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

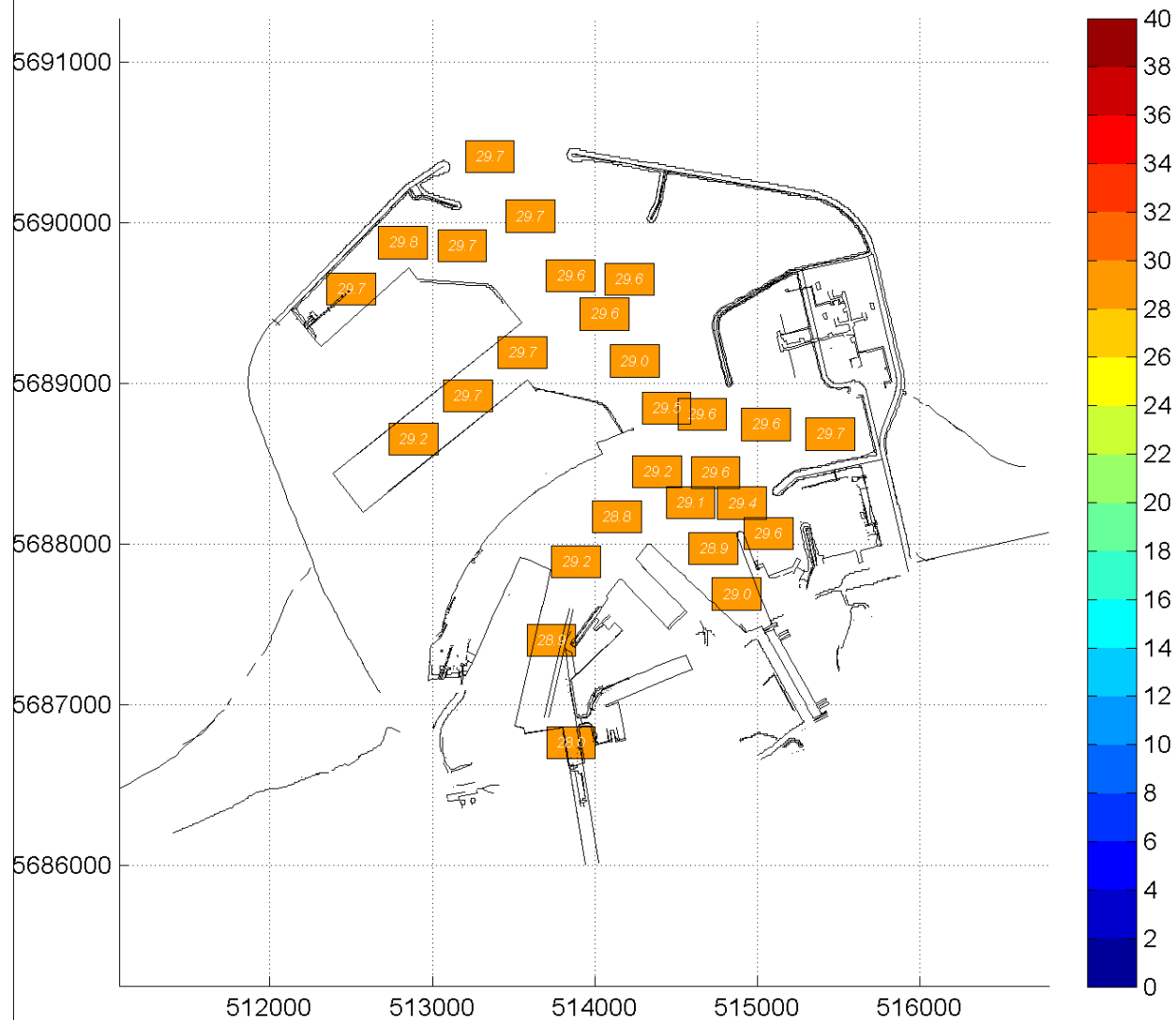
11292 - Zoutmetingen Zeebrugge

Location:

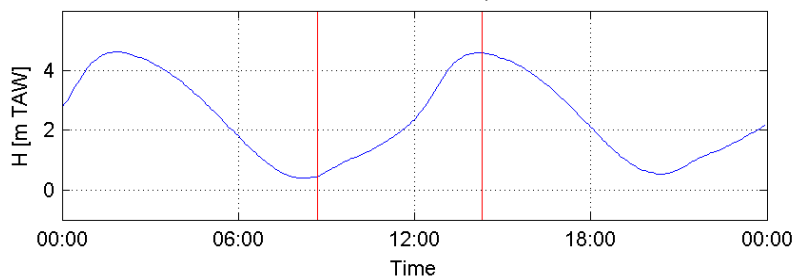
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 21-Apr-2008



HW/LW

01:50: h = 4.63m

14:15: h = 4.61m

08:05: h = 0.39m

Date/time:

21-Apr-2008

08:41 - 14:17

Time after HW

-2:45

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

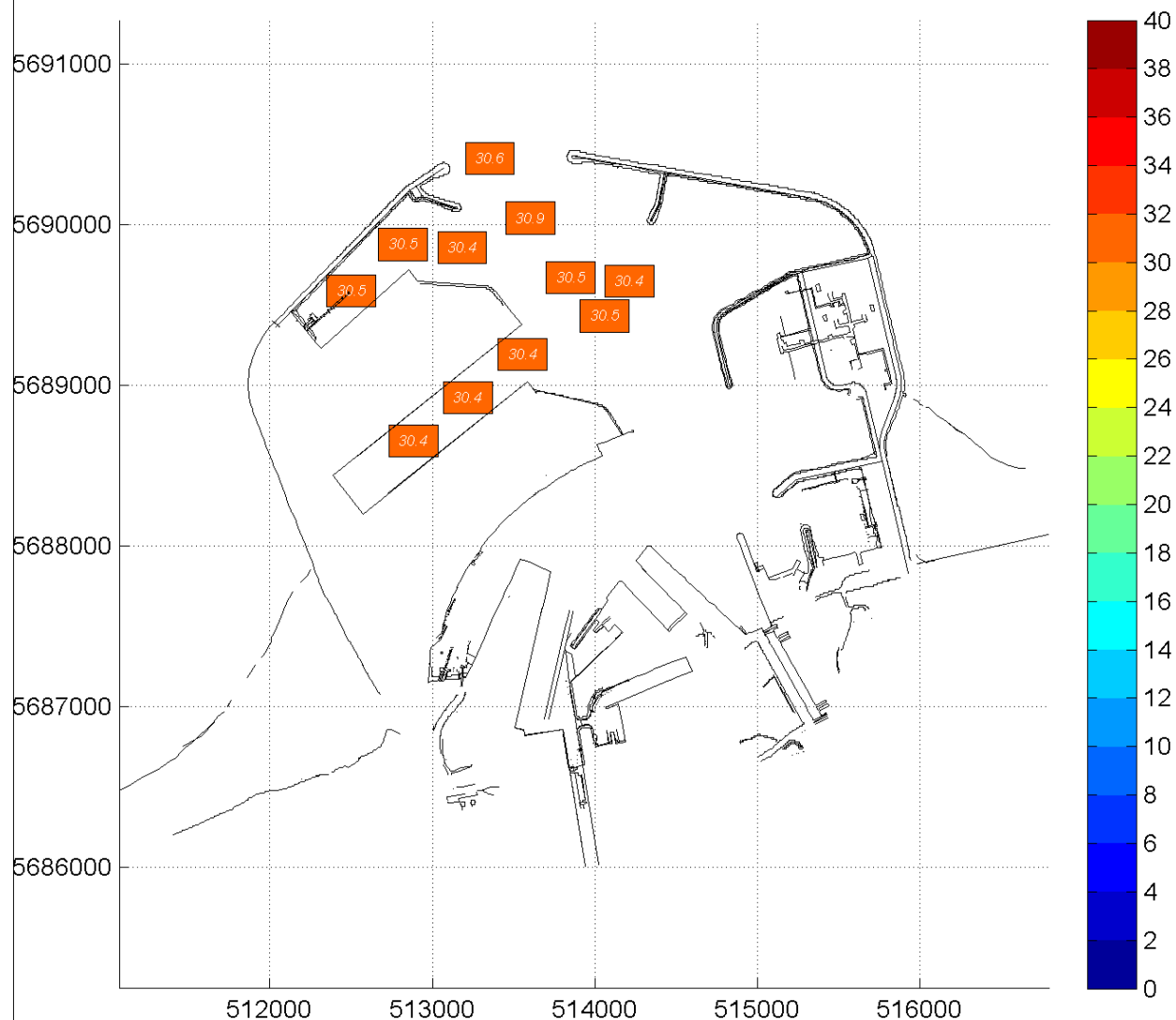
11292 - Zoutmetingen Zeebrugge

Location:

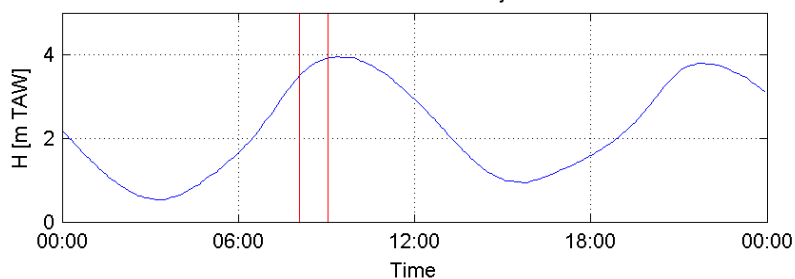
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 14-May-2008



HW/LW

09:20: h = 3.95m

21:40: h = 3.8m

15:45: h = 0.93m

Date/time:

14-May-2008

08:05 - 09:02

Time after HW

-0:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

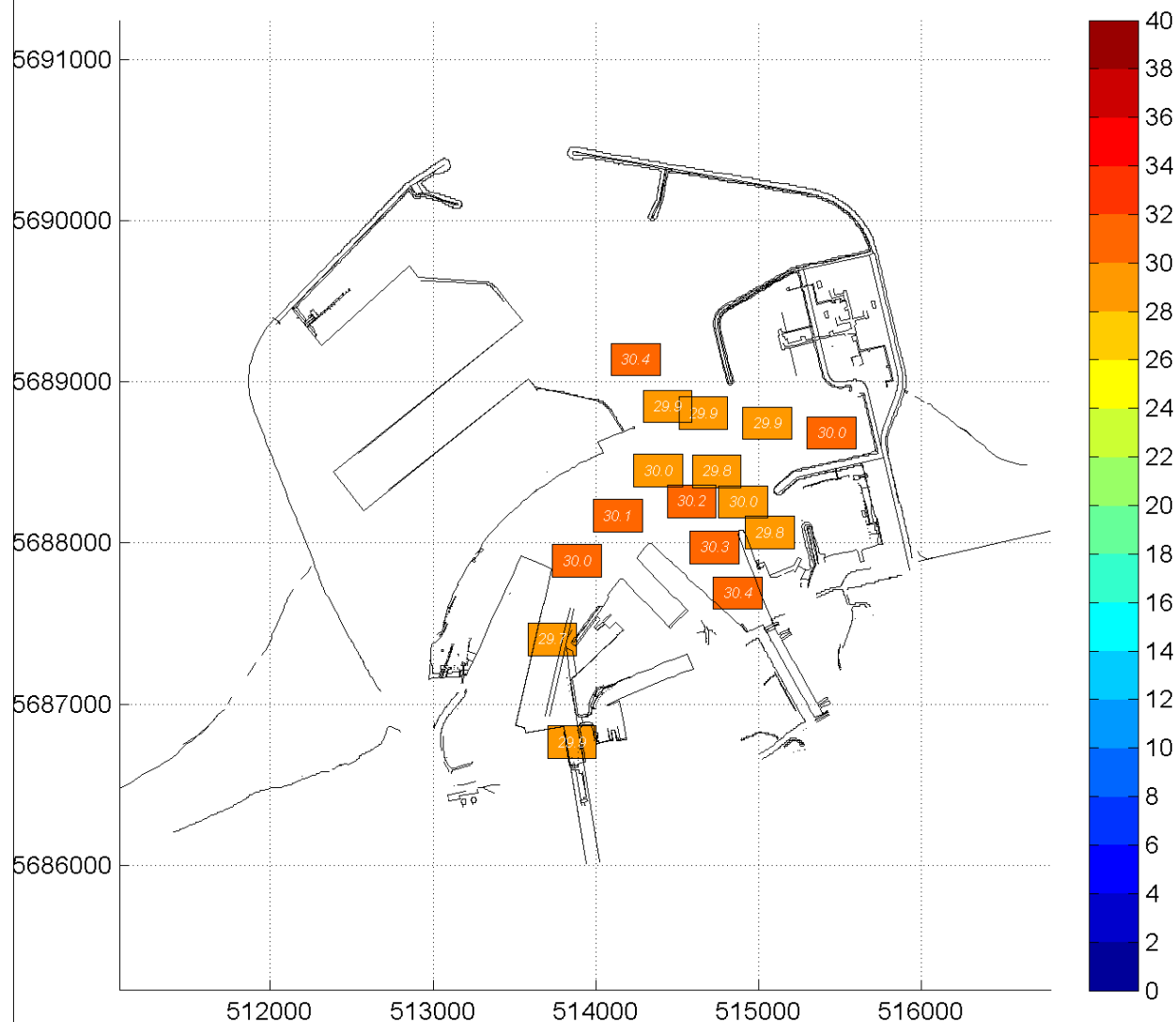
11292 - Zoutmetingen Zeebrugge

Location:

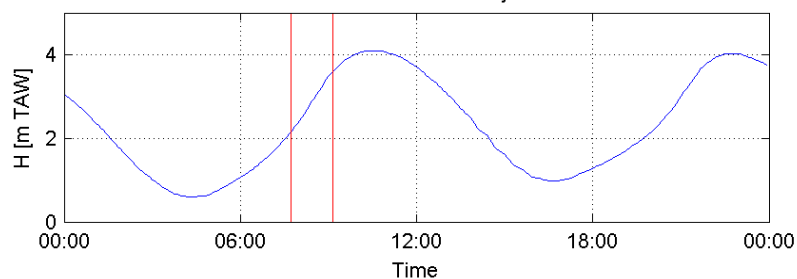
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 15-May-2008



HW/LW

10:20: h = 4.09m

22:40: h = 4.03m

16:35: h = 0.97m

Date/time:

15-May-2008

07:43 - 09:08

Time after HW

-1:53

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

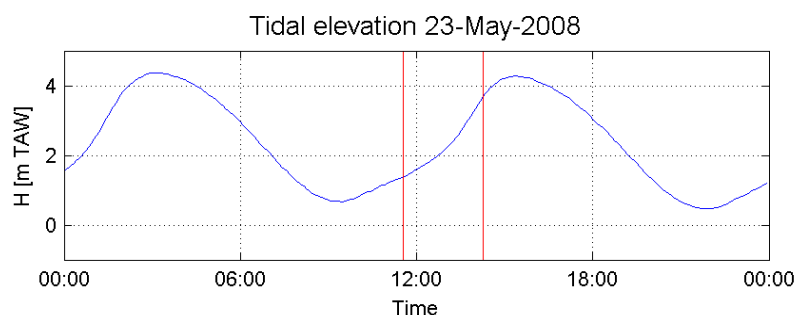
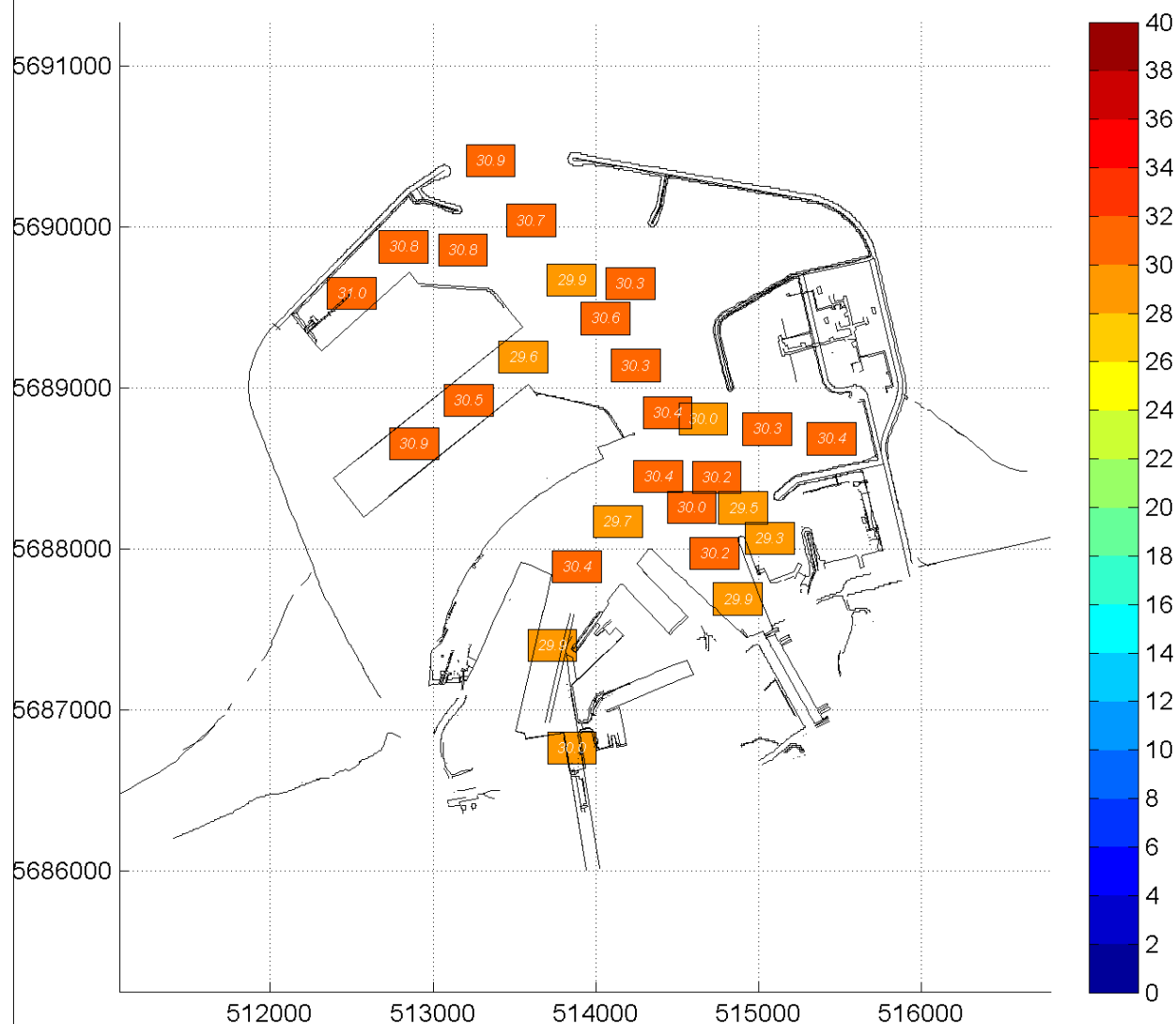
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



HW/LW

03:00: h = 4.37m

15:20: h = 4.29m

09:25: h = 0.66m

Date/time:

23-May-2008

11:33 - 14:16

Time after HW

-2:25

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

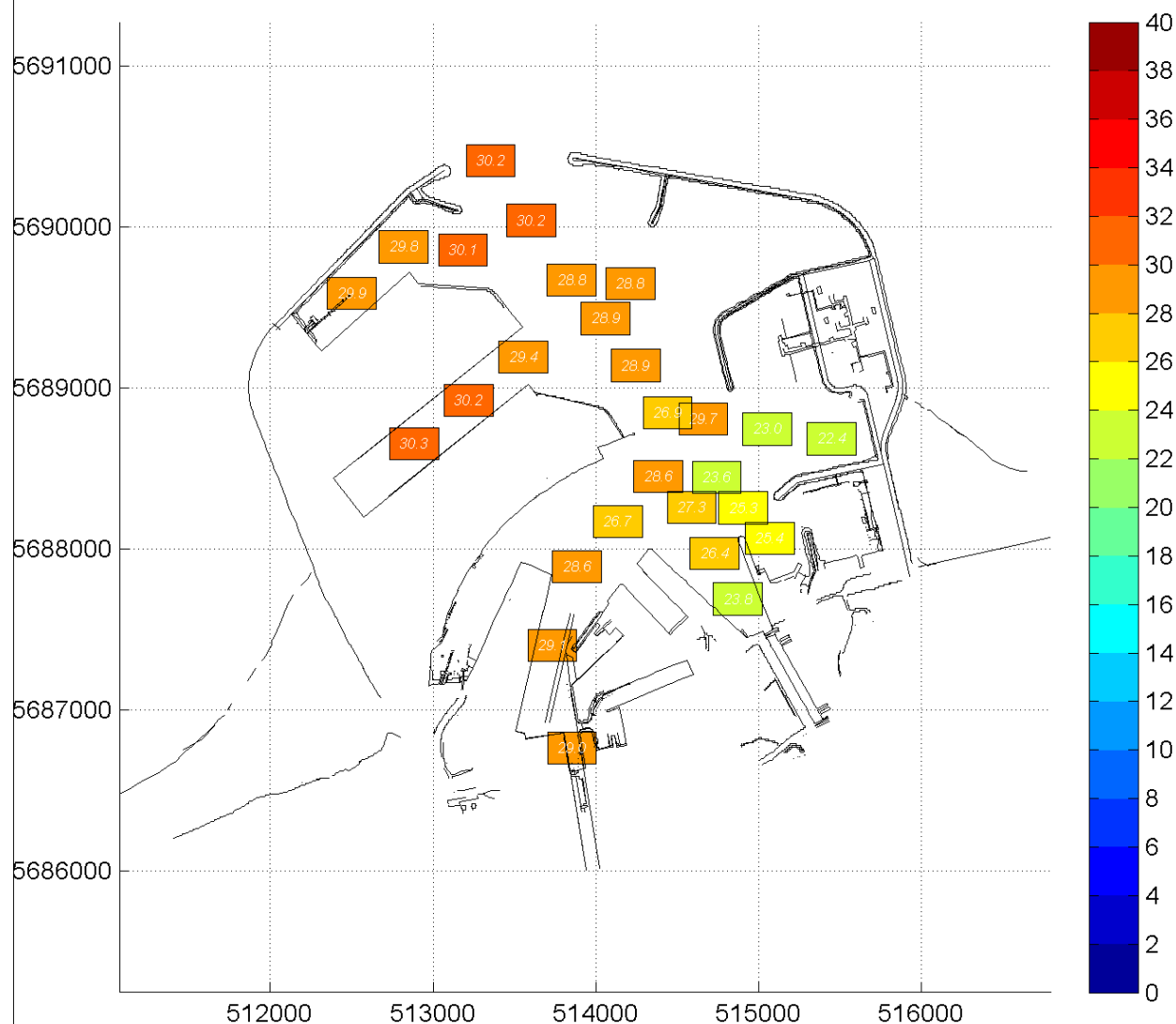
11292 - Zoutmetingen Zeebrugge

Location:

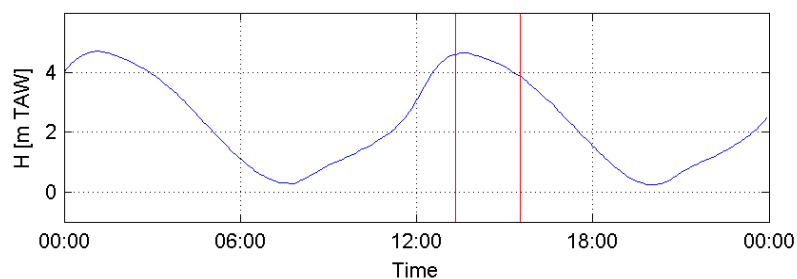
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 04-Jun-2008



HW/LW

01:05: h = 4.72m

13:40: h = 4.67m

07:40: h = 0.29m

Date/time:

04-Jun-2008

13:19 - 15:32

Time after HW

0:46

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





# Horizontal salinity distribution in the port of Zeebrugge

Project:

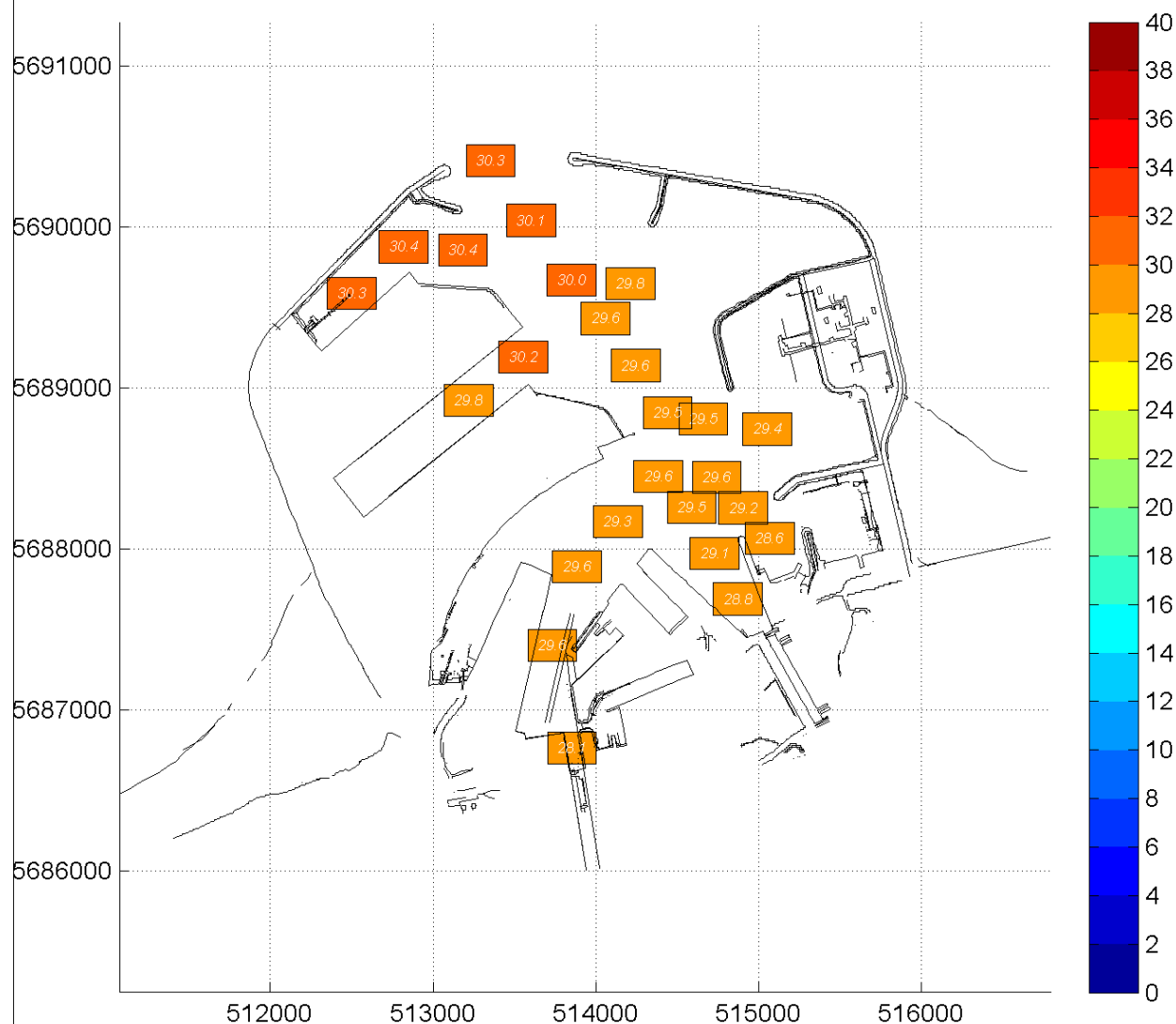
11292 - Zoutmetingen Zeebrugge

Location:

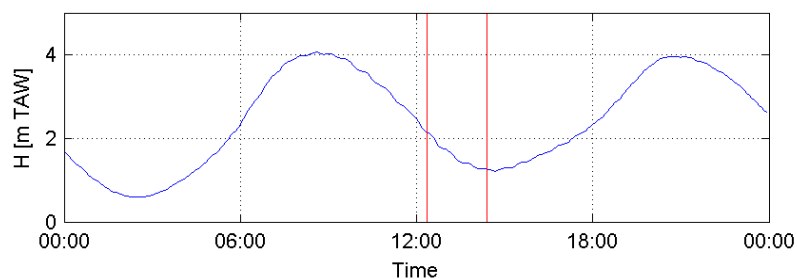
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 12-Jun-2008



HW/LW

08:35: h = 4.06m

20:40: h = 3.96m

14:05: h = 1.27m

Date/time:

12-Jun-2008

12:21 - 14:24

Time after HW

4:48

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

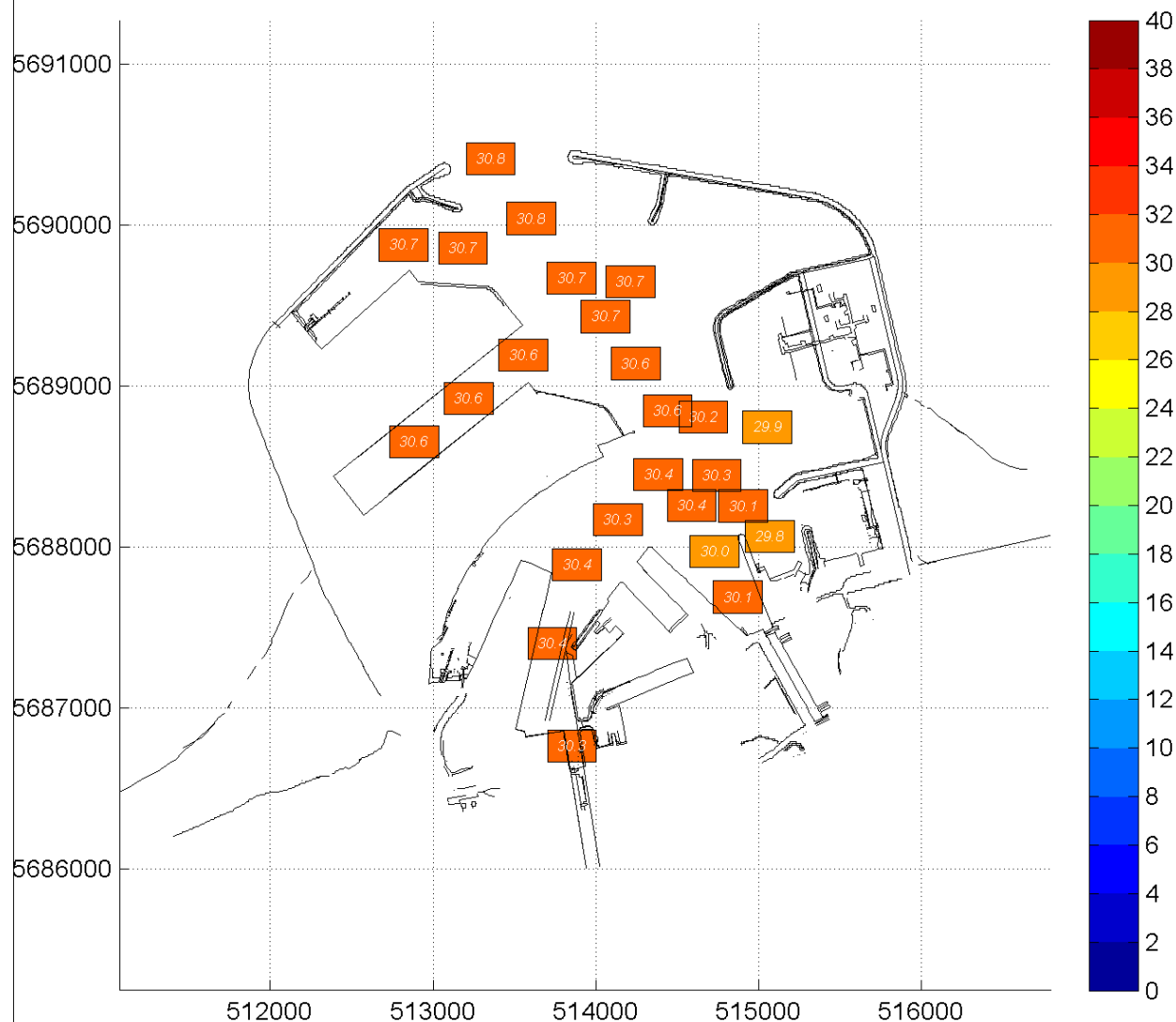
11292 - Zoutmetingen Zeebrugge

Location:

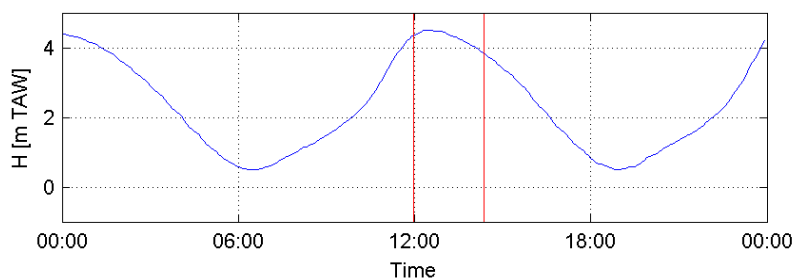
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 02-Jul-2008



HW/LW

12:25: h = 4.5m  
01:00: h = NaNm  
18:55: h = 0.49m

Date/time:

02-Jul-2008

11:57 - 14:21

Time after HW

0:44

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

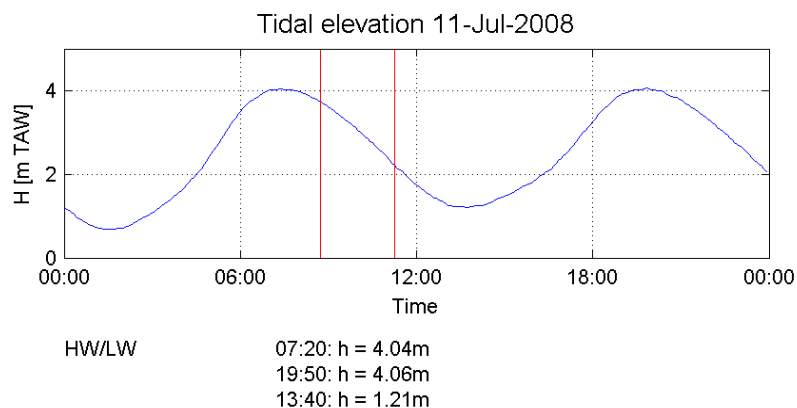
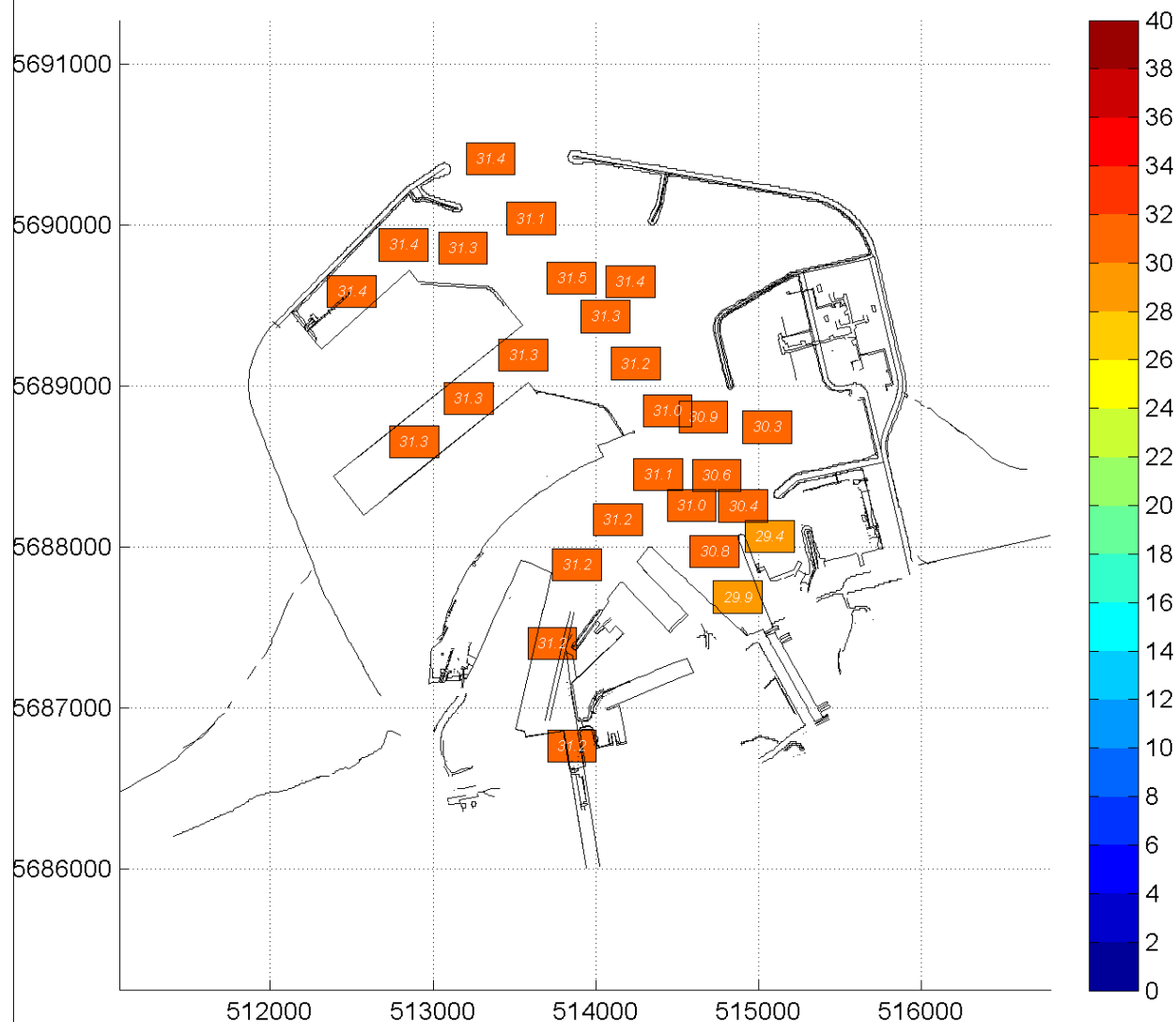
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

11-Jul-2008

08:44 - 11:14

Time after HW

2:39

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

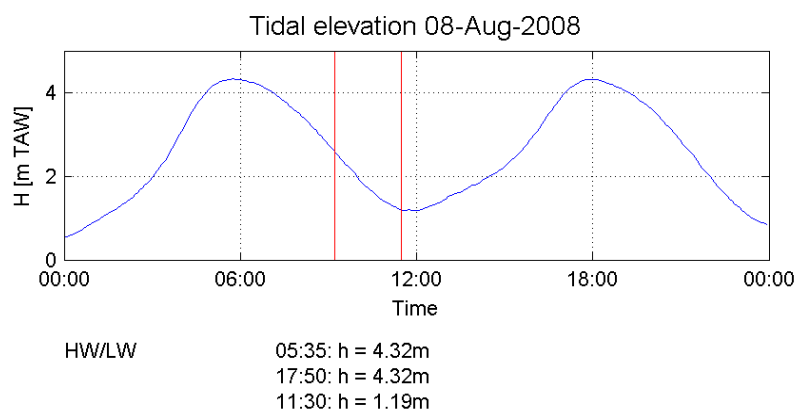
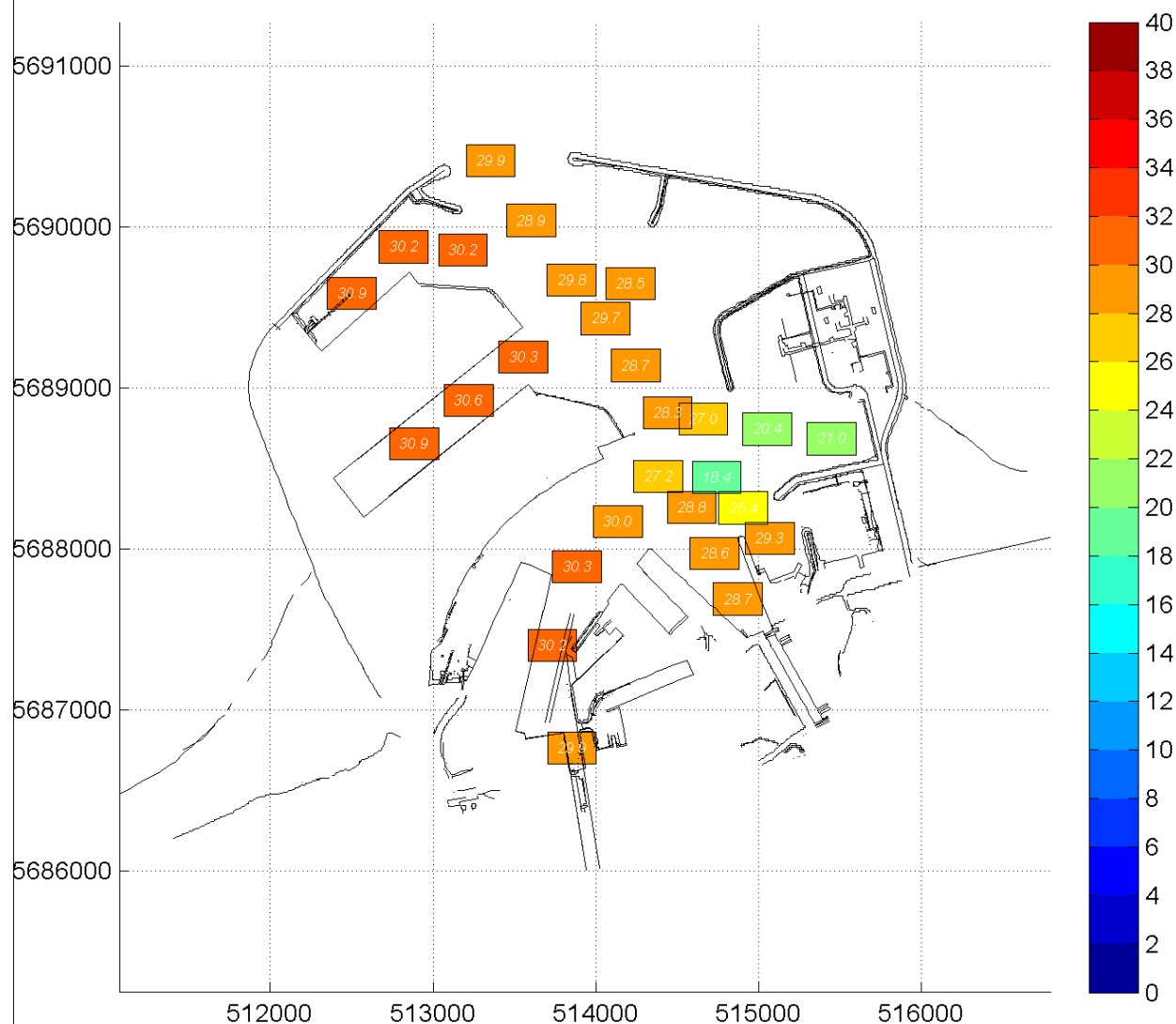
11292 - Zoutmetingen Zeebrugge

Location:

Port of Zeebrugge

Depth:

1 m below the free surface



Date/time:

08-Aug-2008

09:12 - 11:28

Time after HW

4:45

I/RA/11292/10.123/BQU

Data Processed by:



In association with:



# Horizontal salinity distribution in the port of Zeebrugge

Project:

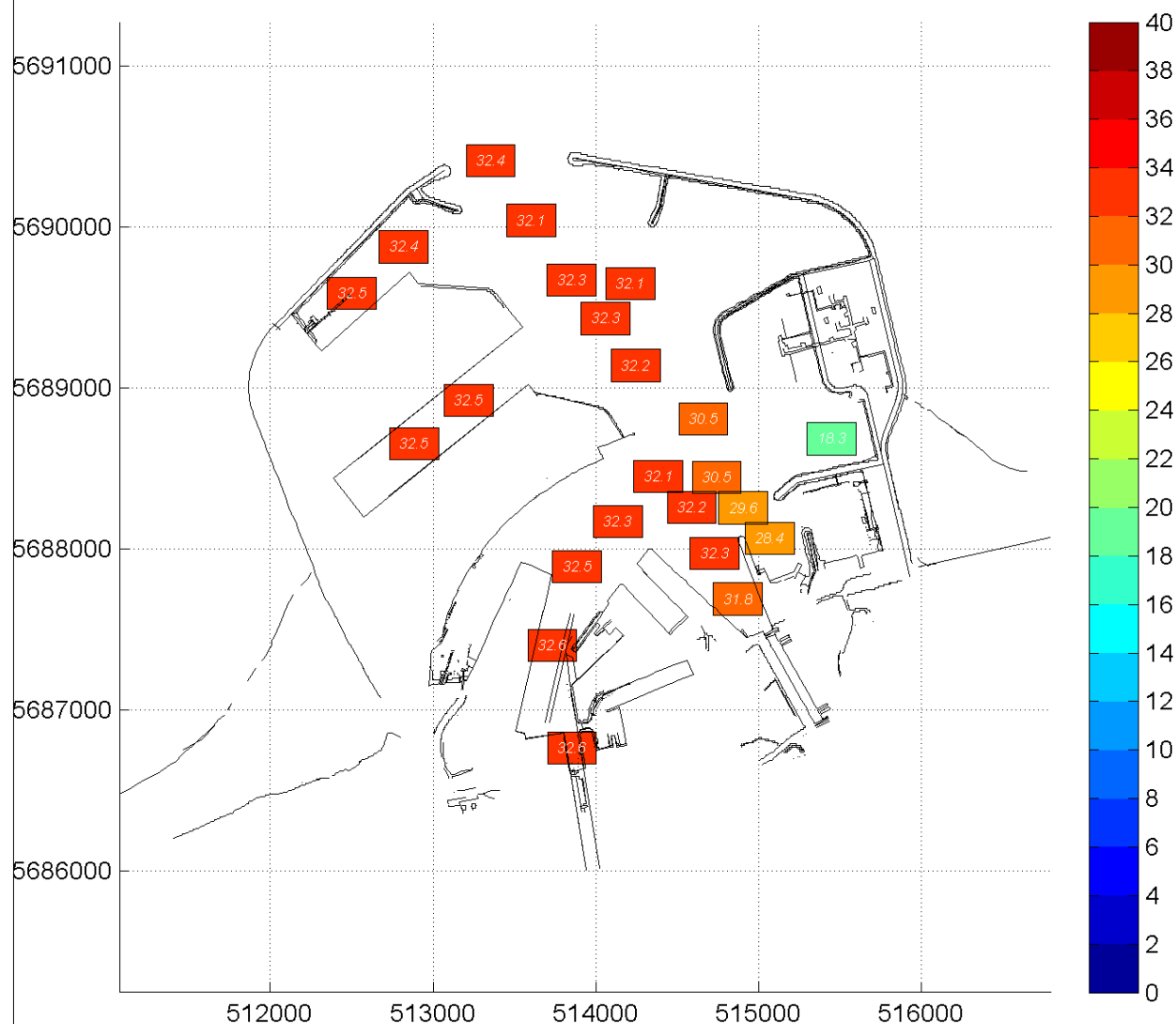
11292 - Zoutmetingen Zeebrugge

Location:

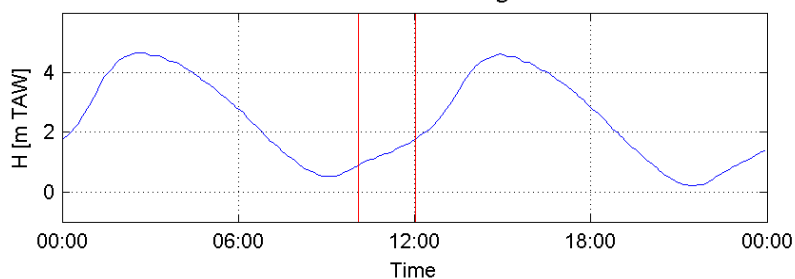
Port of Zeebrugge

Depth:

1 m below the free surface



Tidal elevation 19-Aug-2008



HW/LW

02:40: h = 4.67m

14:55: h = 4.63m

08:55: h = 0.53m

Date/time:

19-Aug-2008

10:05 - 12:02

Time after HW

-3:51

I/RA/11292/10.123/BQU

Data Processed by:



In association with:





## **Annex G Cross section of the salinity distribution throughout the watercolumn along the port of Zeebrugge**





# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

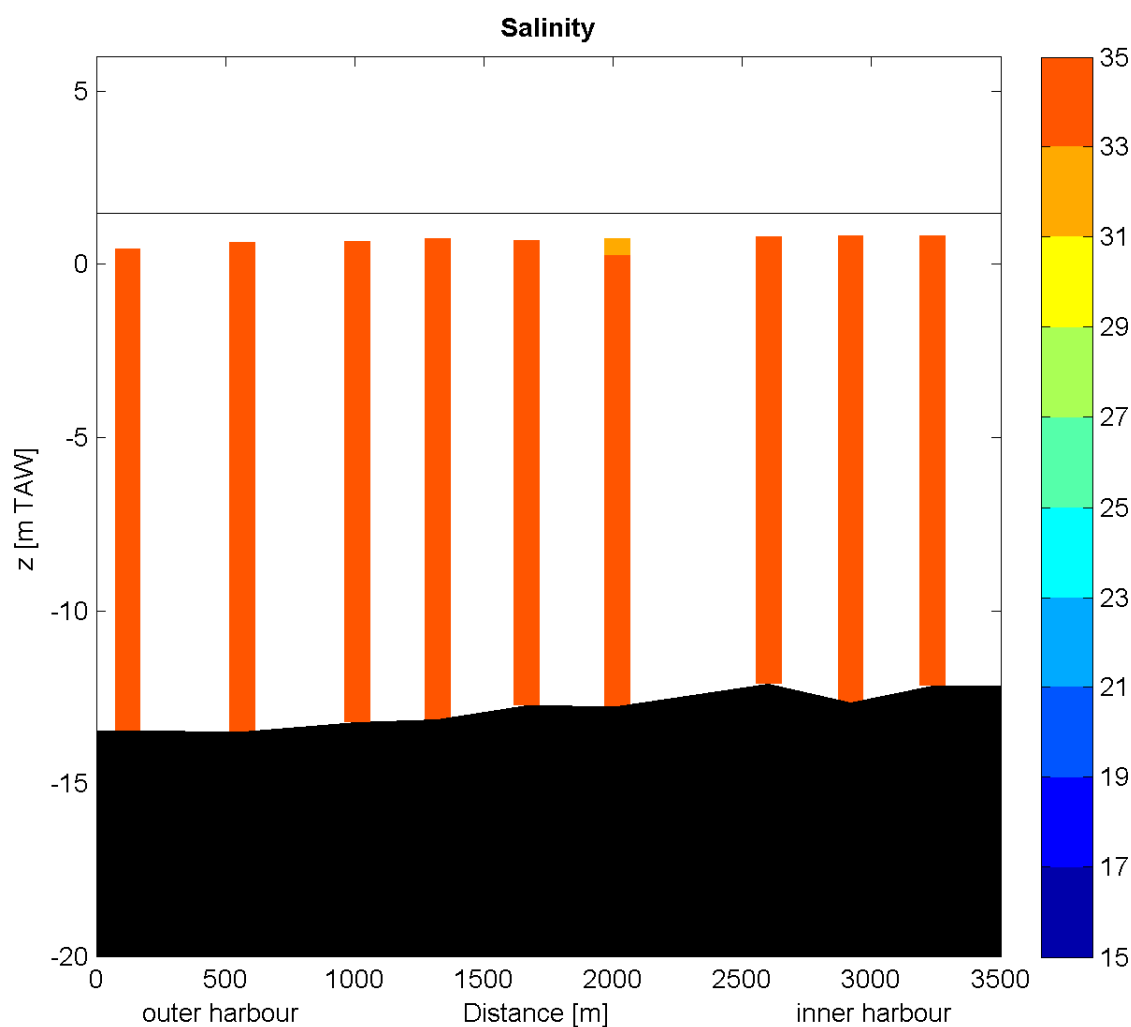
CTD Diver

Sourcefile:

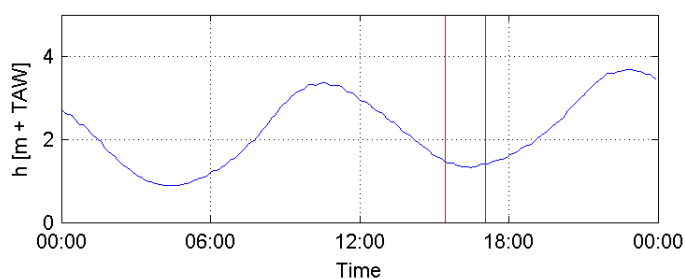
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 15-Jan-2007



Slack water:

04:35: h = 0.88 m+TAW

16:25: h = 1.32 m+TAW

10:30: h = 3.36 m+TAW

Date / Time [MET] :

15-Jan-2007

15:27 - 17:03

Time after HW [HH:MM]

-0:09

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

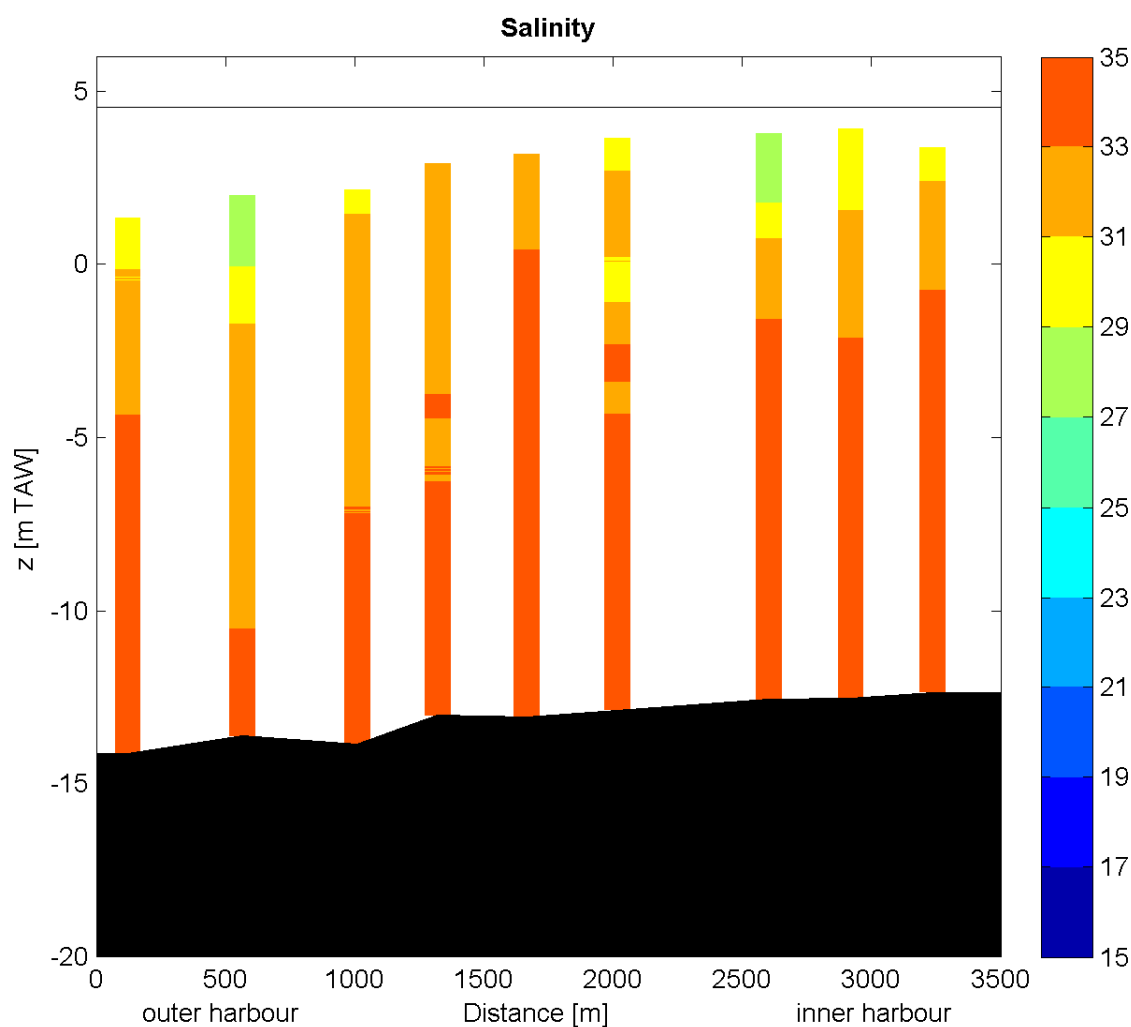
CTD Diver

Sourcefile:

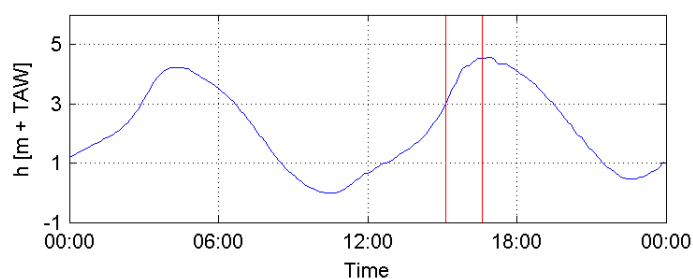
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 23-Jan-2007



Slack water: 04:10: h = 4.22 m+TAW  
16:55: h = 4.58 m+TAW  
10:20: h = -0.01 m+TAW

Date / Time [MET] :

23-Jan-2007

15:09 - 16:37

Time after HW [HH:MM]

-1:01

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

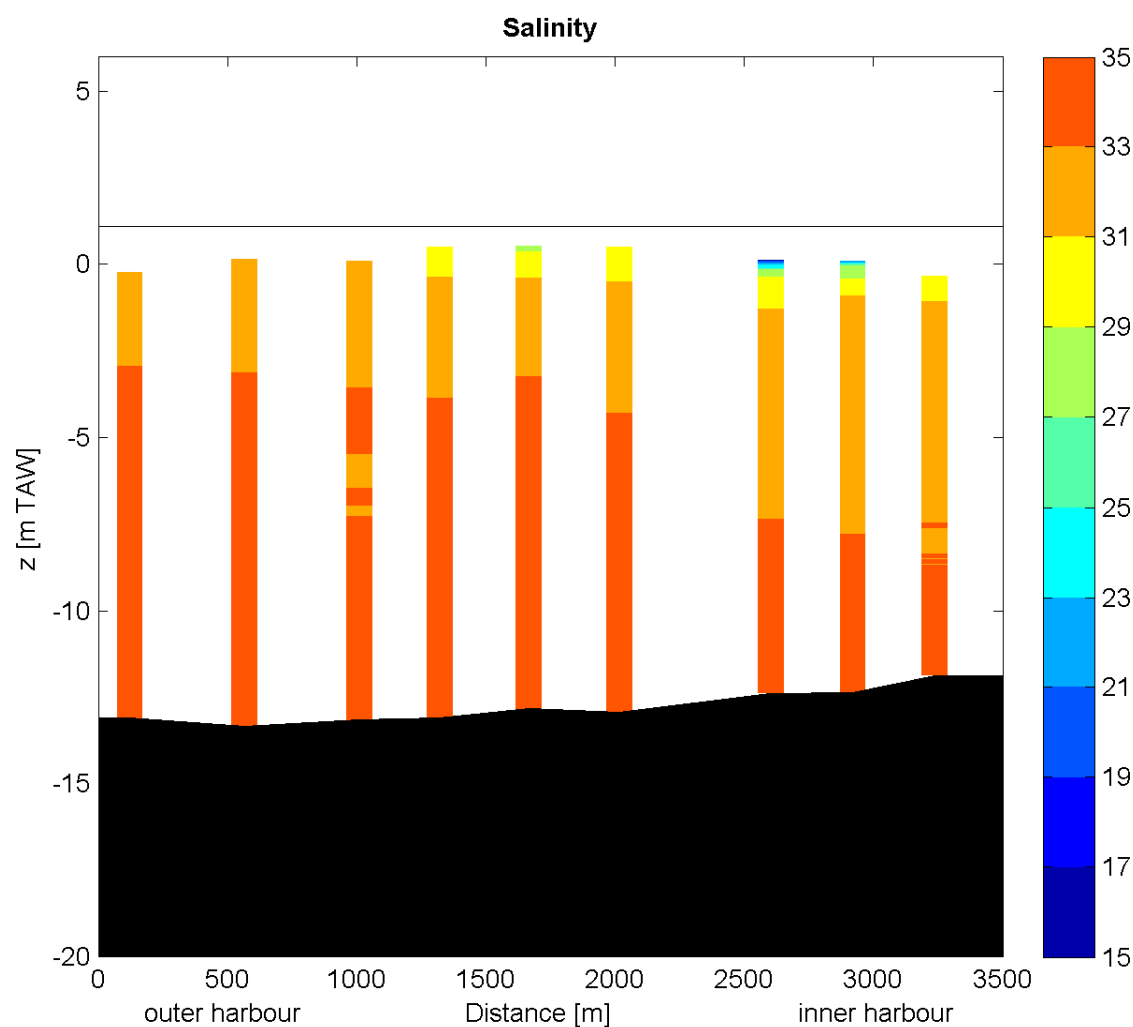
CTD Diver

Sourcefile:

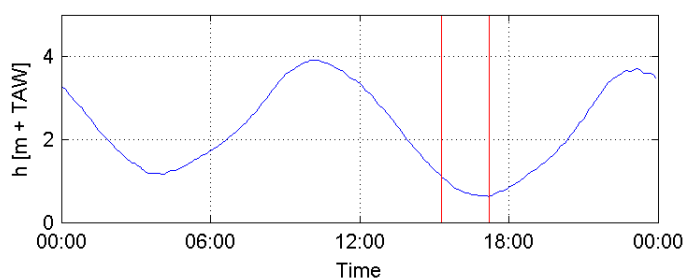
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 29-Jan-2007



Slack water:

04:05: h = 1.16 m+TAW

17:10: h = 0.63 m+TAW

10:05: h = 3.91 m+TAW

Date / Time [MET] :

29-Jan-2007

15:18 - 17:12

Time after HW [HH:MM]

-0:54

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

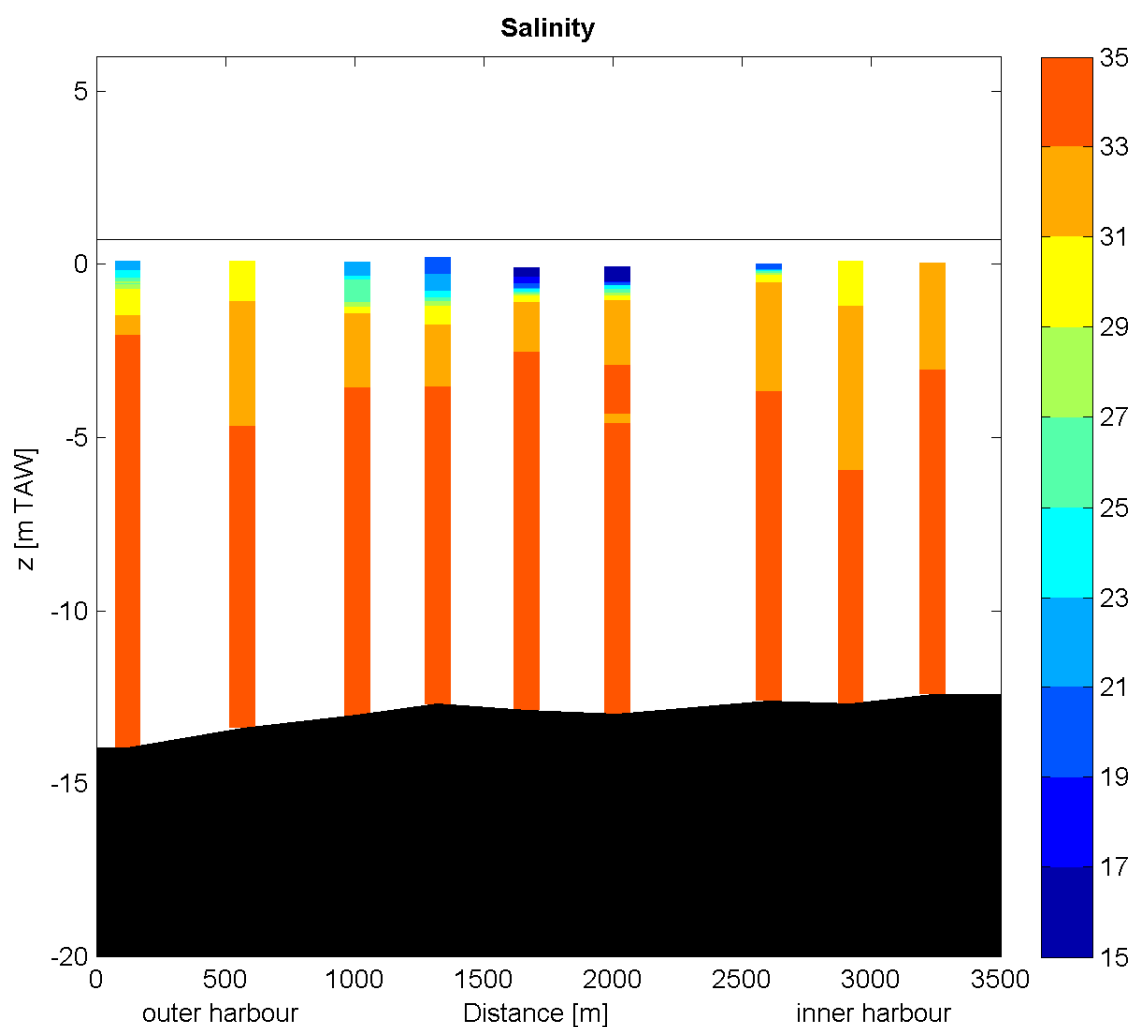
CTD Diver

Sourcefile:

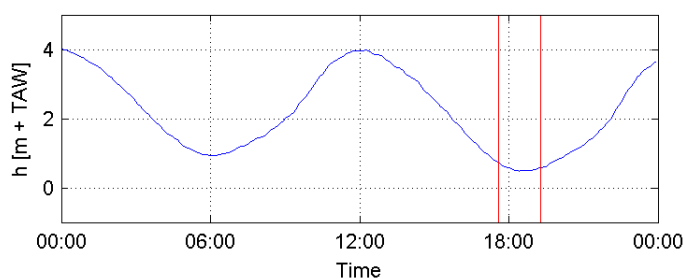
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 15-Feb-2007



Slack water:

23:20: h = NaN m+TAW

12:15: h = 3.98 m+TAW

05:55: h = 0.94 m+TAW

Date / Time [MET] :

15-Feb-2007

17:36 - 19:16

Time after HW [HH:MM]

6:11

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

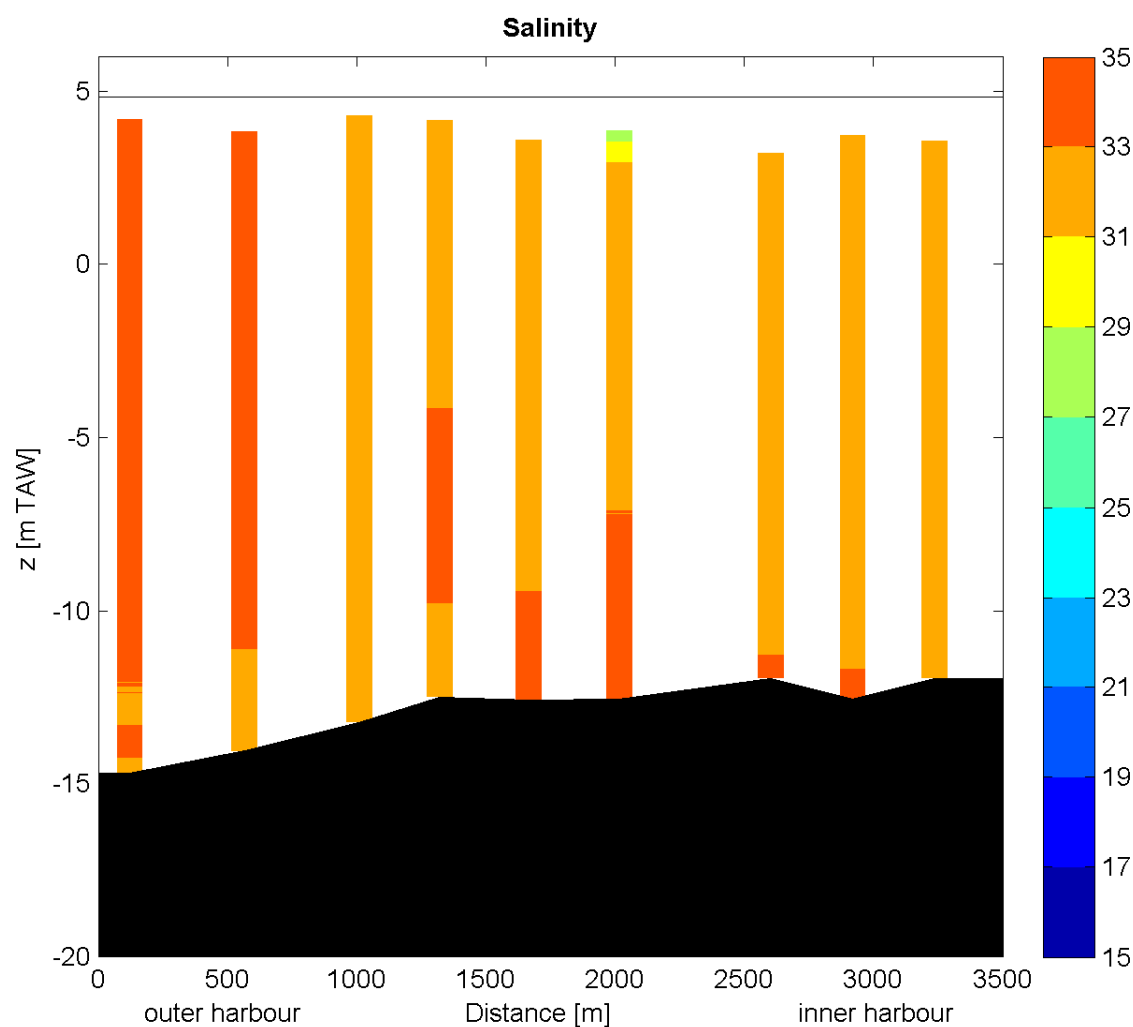
CTD Diver

Sourcefile:

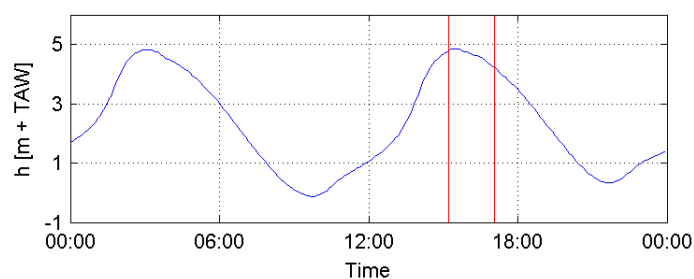
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 20-Feb-2007



Slack water:      03:00: h = 4.82 m+TAW  
                          15:25: h = 4.86 m+TAW  
                          09:40: h = -0.12 m+TAW

Date / Time [MET] :

20-Feb-2007

15:12 - 17:03

Time after HW [HH:MM]

0:43

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

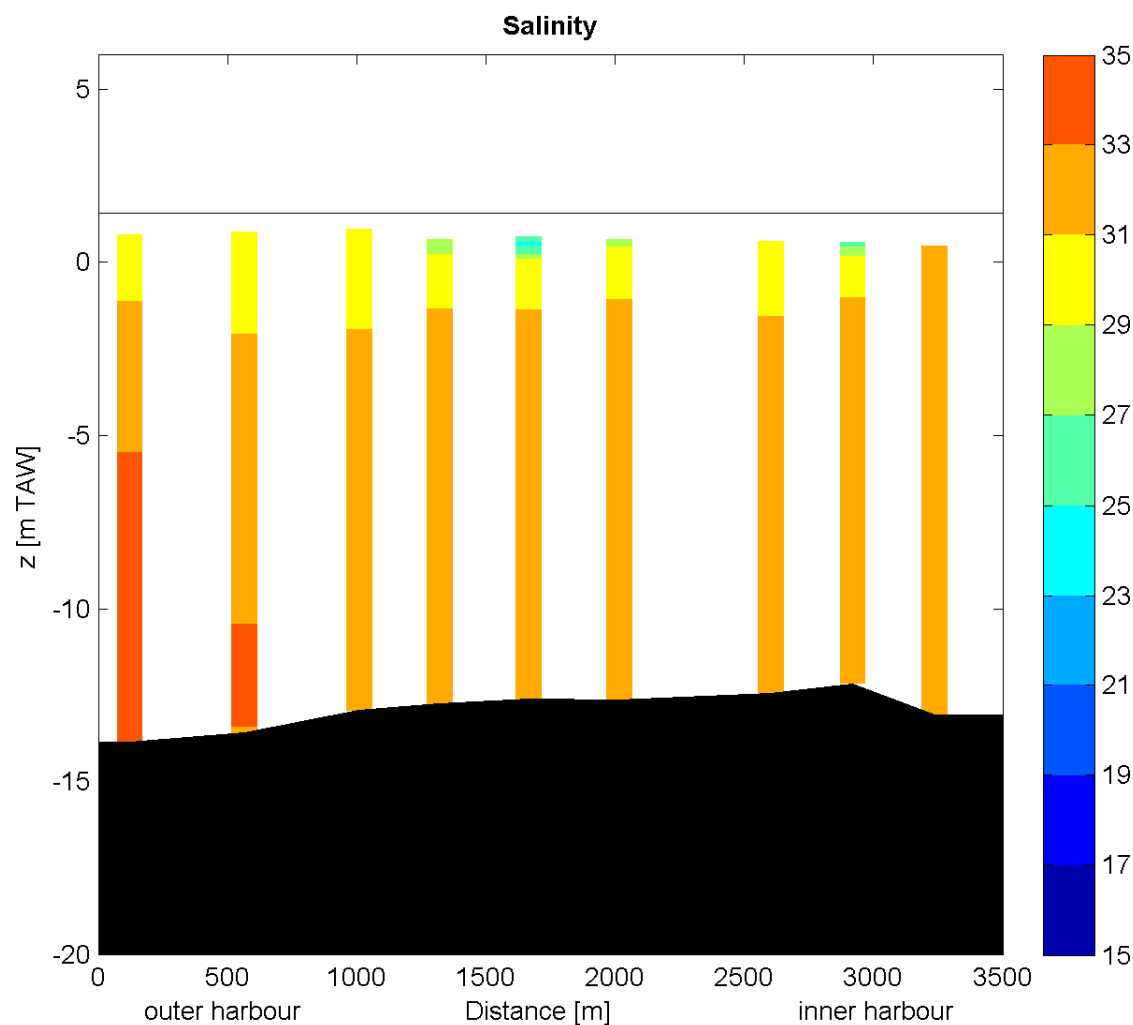
CTD Diver

Sourcefile:

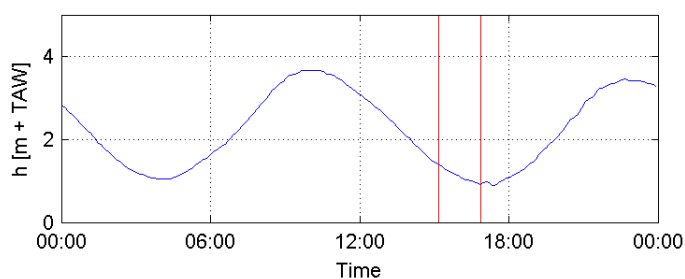
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 27-Feb-2007



Slack water:

04:10: h = 1.04 m+TAW

17:20: h = 0.9 m+TAW

09:50: h = 3.67 m+TAW

Date / Time [MET] :

27-Feb-2007

15:09 - 16:51

Time after HW [HH:MM]

-1:19

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

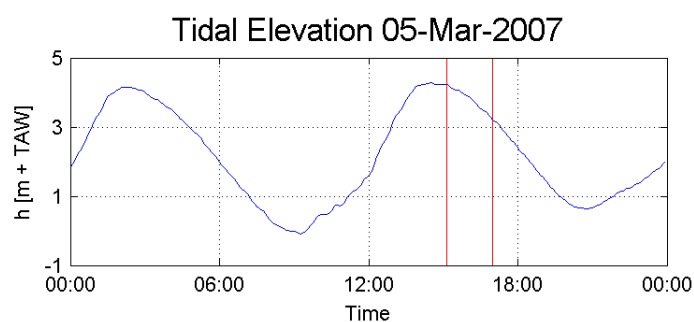
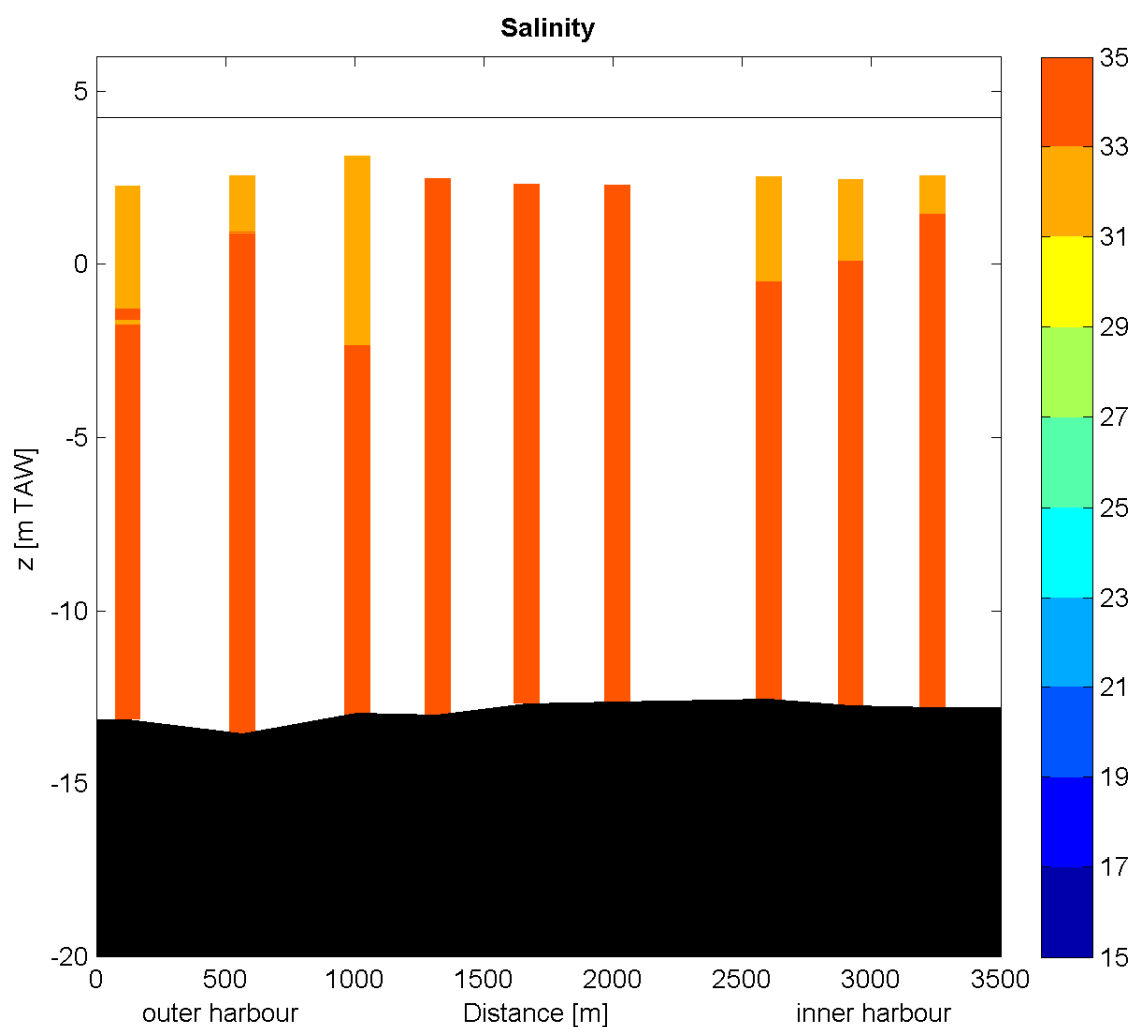
CTD Diver

Sourcefile:

\*.sil

Location:

port of Zeebrugge



Slack water: 02:05:  $h = 4.15$  m+TAW  
 14:30:  $h = 4.28$  m+TAW  
 09:15:  $h = -0.09$  m+TAW

Date / Time [MET] :

05-Mar-2007

15:09 - 16:58

Time after HW [HH:MM]

1:33

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

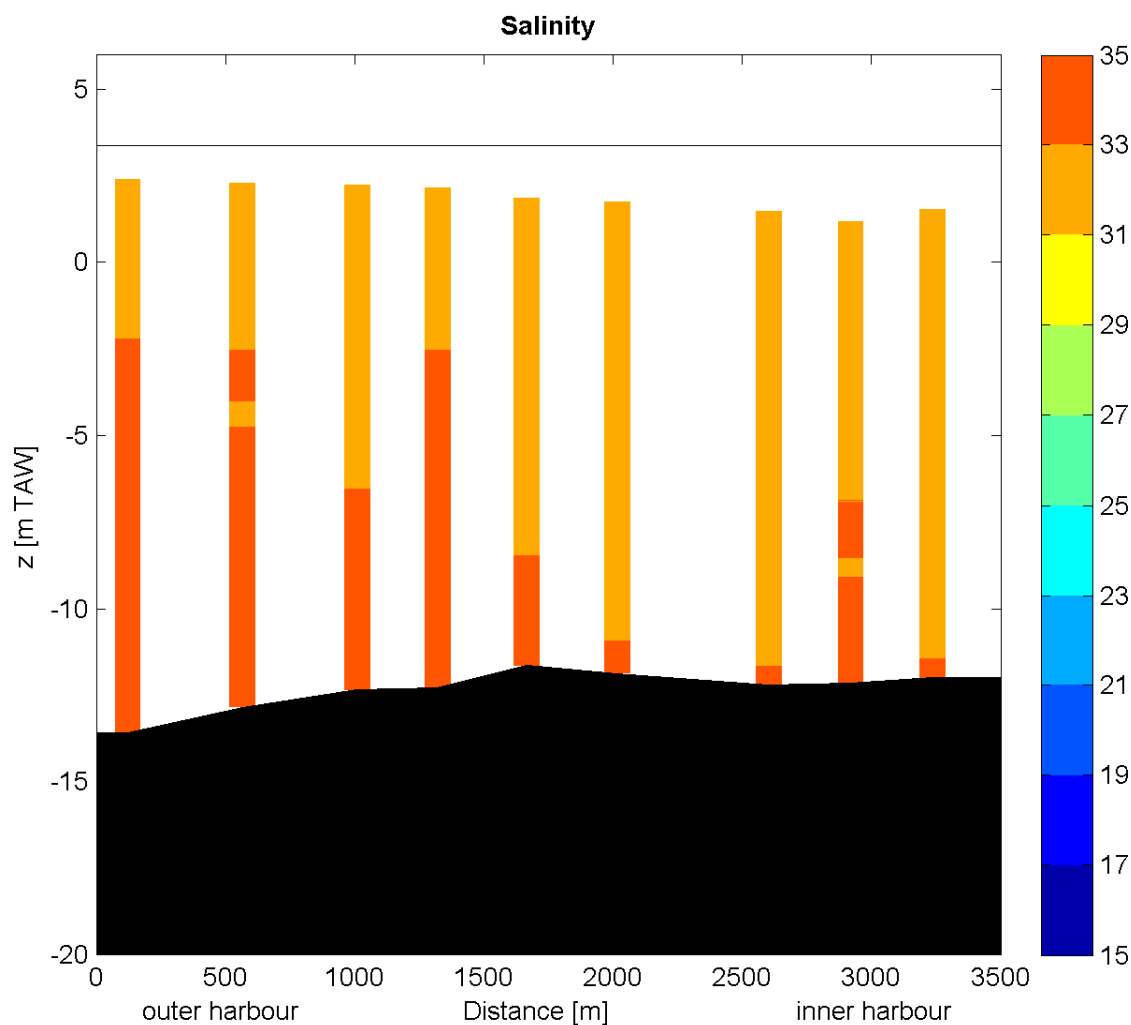
CTD Diver

Sourcefile:

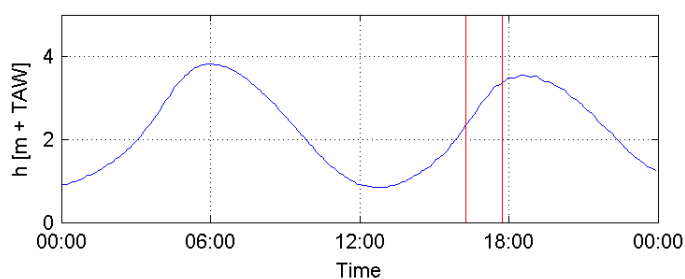
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 12-Mar-2007



Slack water: 05:55: h = 3.82 m+TAW  
18:30: h = 3.54 m+TAW  
12:35: h = 0.84 m+TAW

Date / Time [MET] :

12-Mar-2007

16:15 - 17:43

Time after HW [HH:MM]

-1:30

Data Processed by:



In association with :



\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

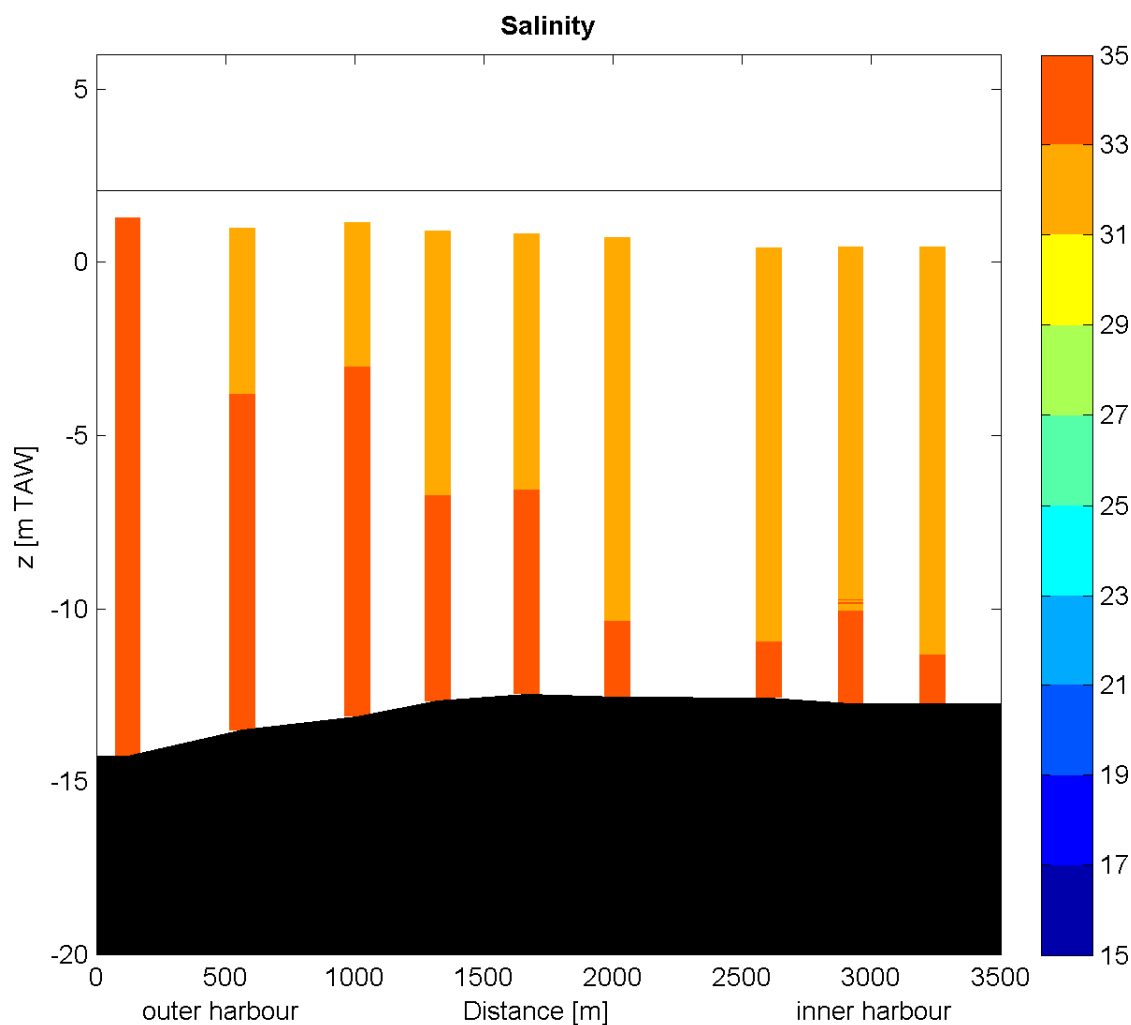
CTD Diver

Sourcefile:

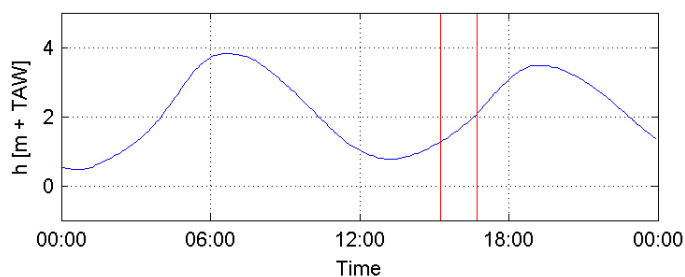
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 26-Mar-2007



Slack water:

06:35: h = 3.83 m+TAW

19:00: h = 3.47 m+TAW

13:15: h = 0.77 m+TAW

Date / Time [MET] :

26-Mar-2007

15:14 - 16:42

Time after HW [HH:MM]

-3:01

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

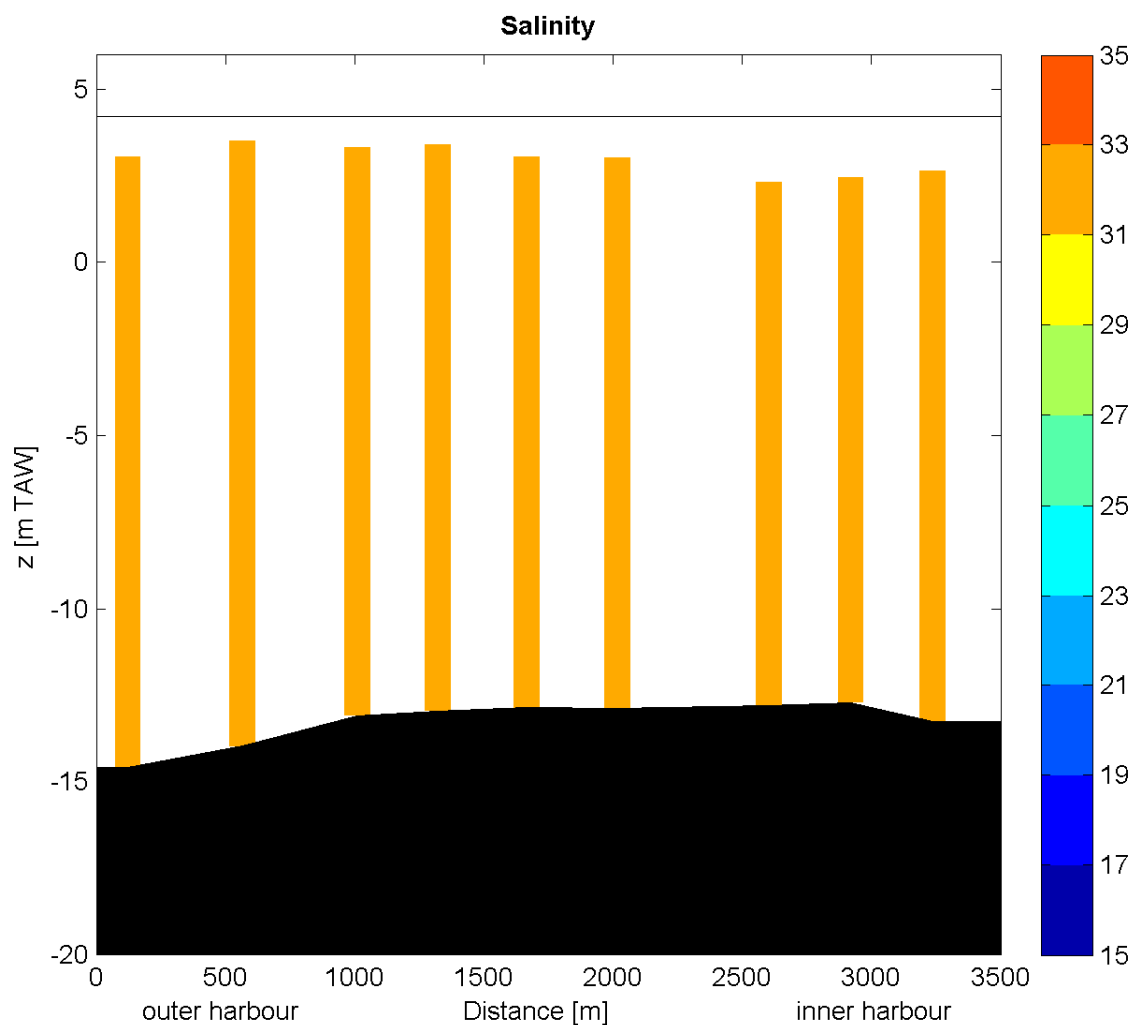
CTD Diver

Sourcefile:

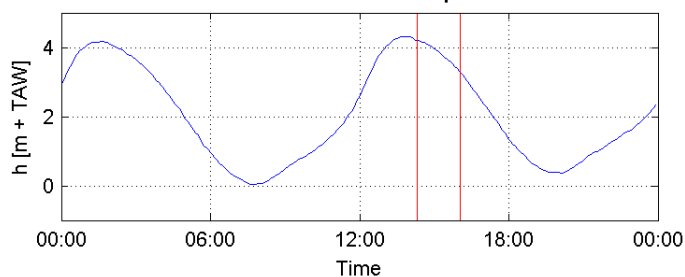
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 02-Apr-2007



Slack water: 01:35: h = 4.17 m+TAW  
13:50: h = 4.31 m+TAW  
07:40: h = 0.04 m+TAW

Date / Time [MET] :

02-Apr-2007

14:19 - 16:01

Time after HW [HH:MM]

1:20

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

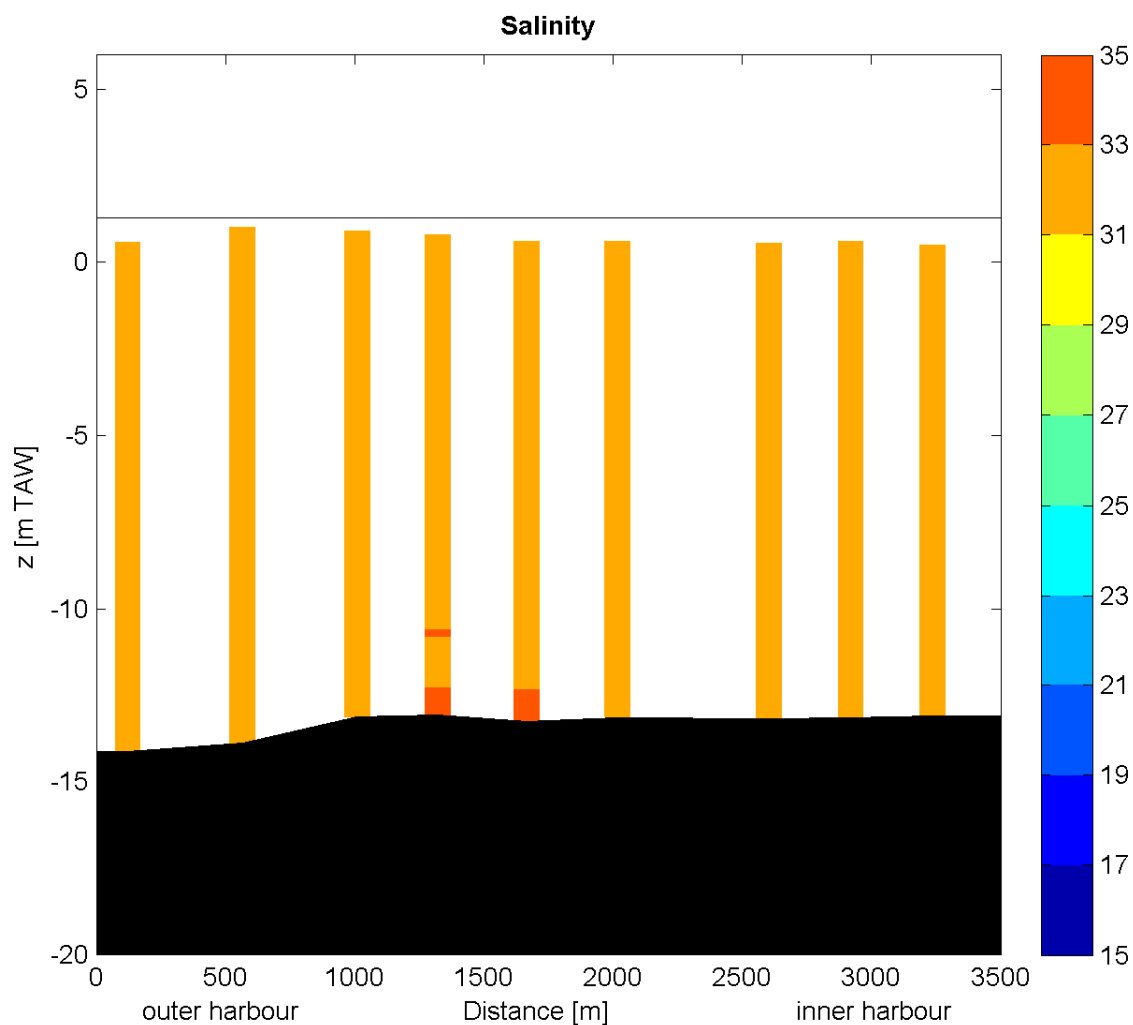
CTD Diver

Sourcefile:

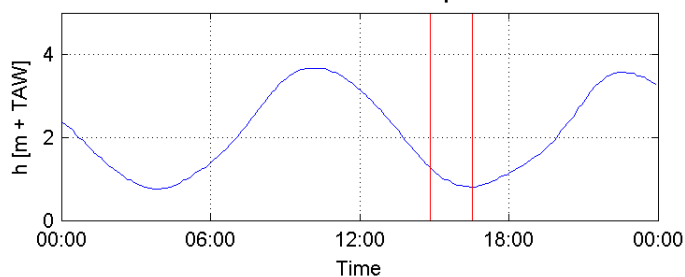
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 13-Apr-2007



Slack water: 03:40: h = 0.76 m+TAW  
16:25: h = 0.81 m+TAW  
09:55: h = 3.67 m+TAW

Date / Time [MET] :

13-Apr-2007

14:51 - 16:32

Time after HW [HH:MM]

-0:43

Data Processed by:



In association with :

\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

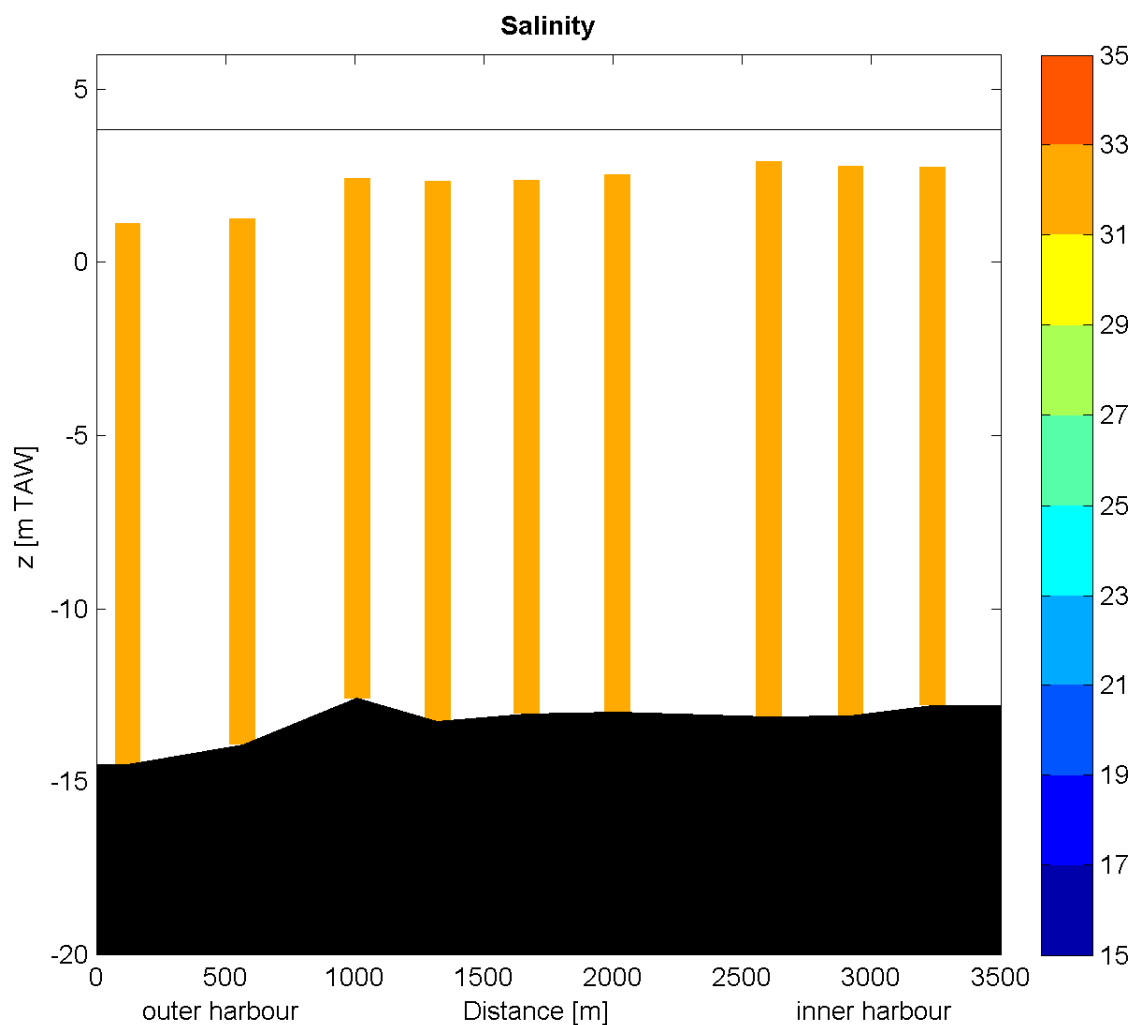
CTD Diver

Sourcefile:

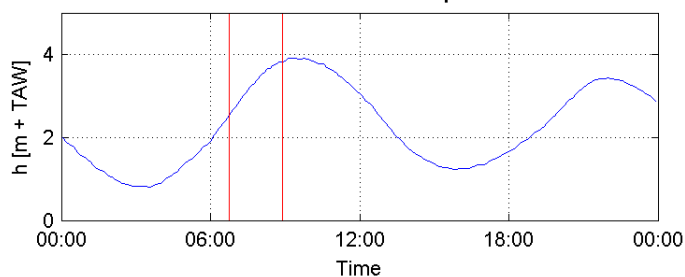
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 26-Apr-2007



Slack water: 20:15:  $h = \text{NaN m} + \text{TAW}$   
 09:15:  $h = 3.91 \text{ m} + \text{TAW}$   
 03:30:  $h = 0.81 \text{ m} + \text{TAW}$

Date / Time [MET] :

26-Apr-2007

06:45 - 08:52

Time after HW [HH:MM]

-1:25

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

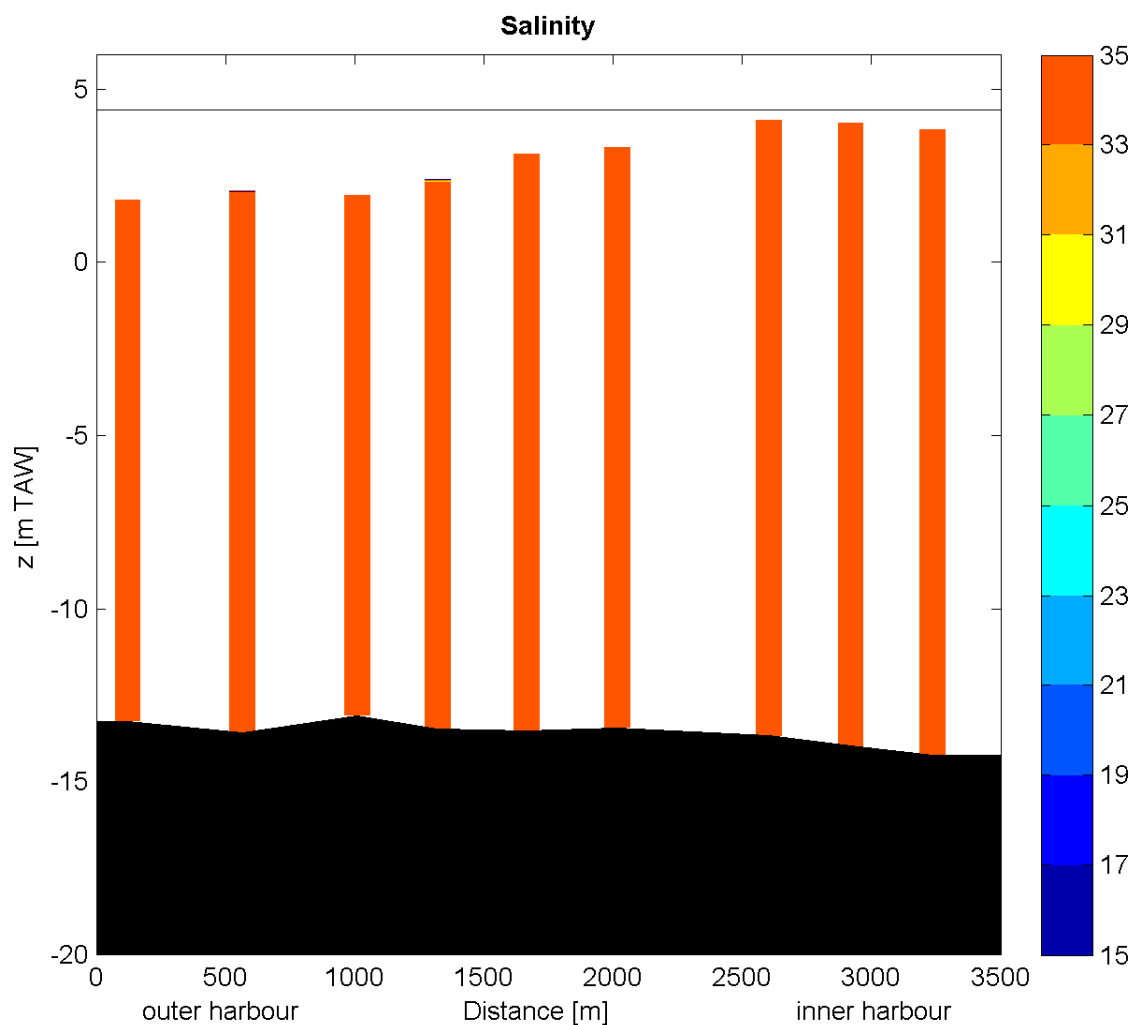
CTD Diver

Sourcefile:

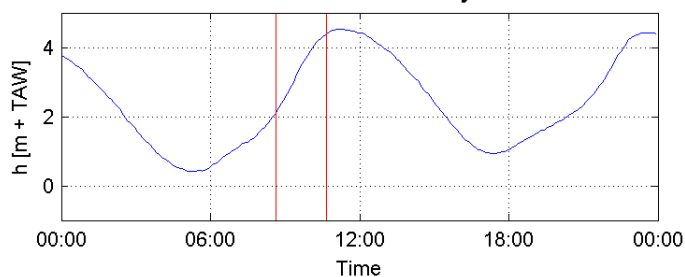
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 14-May-2007



Slack water:

22:35: h = NaN m+TAW

11:05: h = 4.53 m+TAW

05:05: h = 0.41 m+TAW

Date / Time [MET] :

14-May-2007

08:37 - 10:39

Time after HW [HH:MM]

-1:26

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

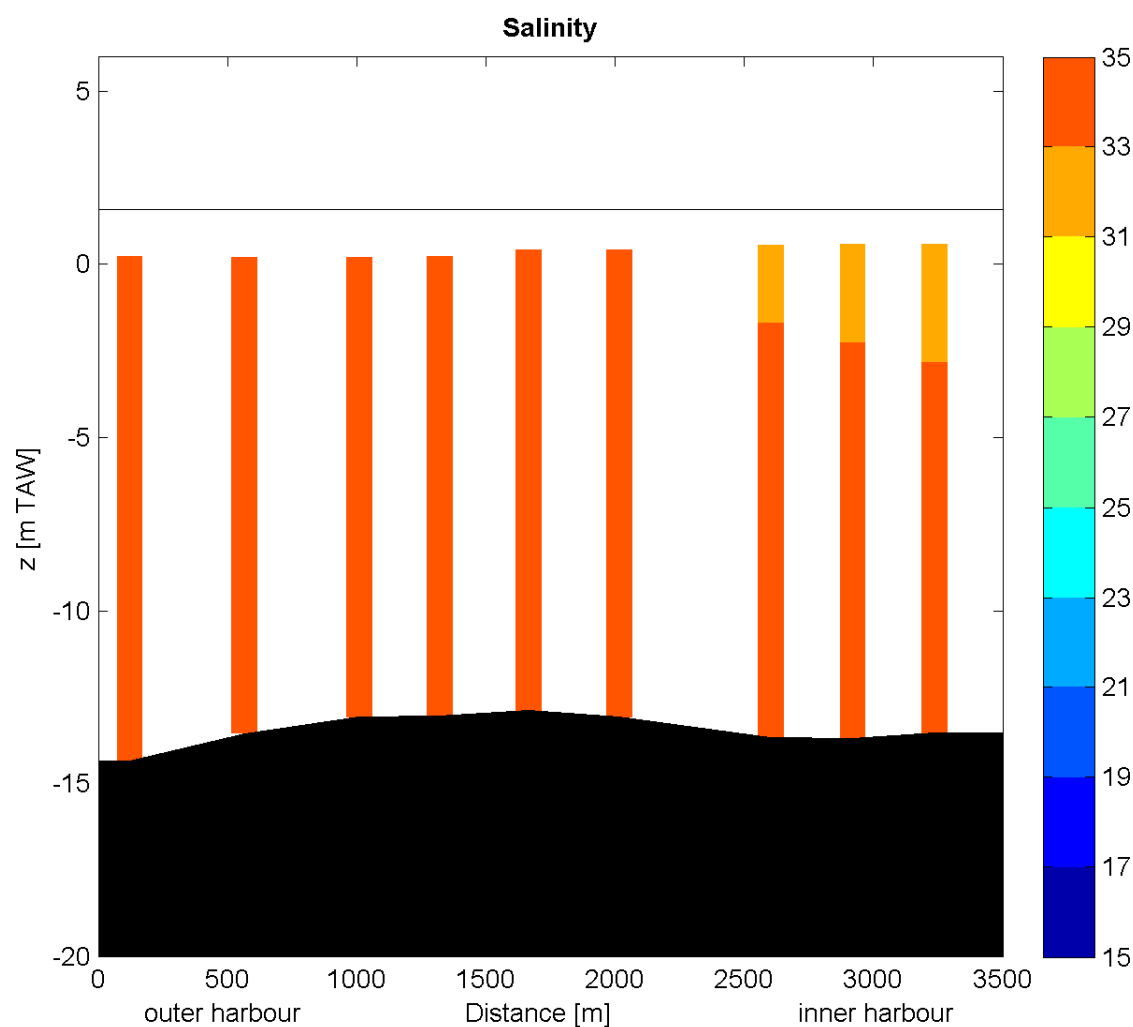
CTD Diver

Sourcefile:

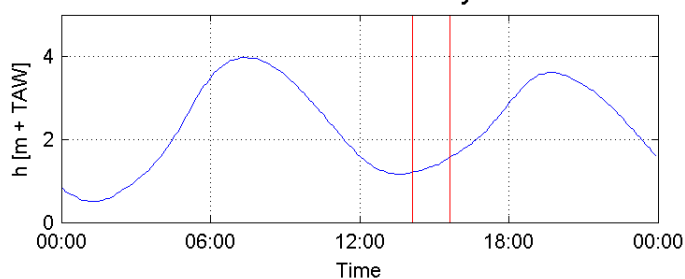
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 24-May-2007



Slack water:

01:10:  $h = 0.5 \text{ m} + \text{TAW}$

13:45:  $h = 1.16 \text{ m} + \text{TAW}$

07:20:  $h = 3.98 \text{ m} + \text{TAW}$

Date / Time [MET] :

24-May-2007

14:06 - 15:36

Time after HW [HH:MM]

1:06

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

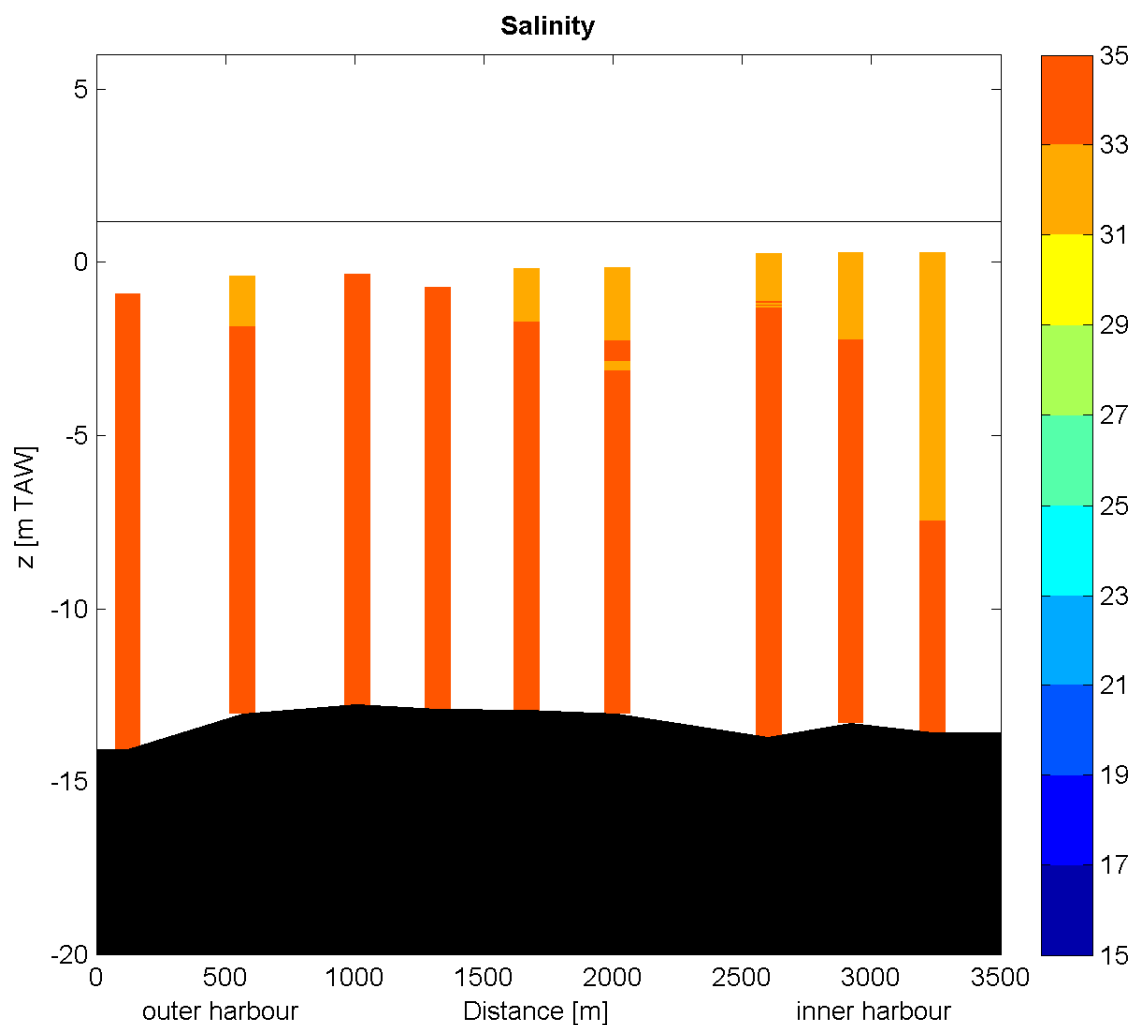
CTD Diver

Sourcefile:

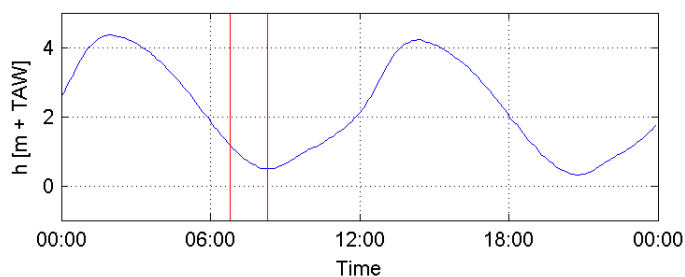
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 02-Jun-2007



Slack water: 01:55:  $h = 4.36 \text{ m} + \text{TAW}$   
 14:20:  $h = 4.22 \text{ m} + \text{TAW}$   
 08:20:  $h = 0.49 \text{ m} + \text{TAW}$

Date / Time [MET] :

02-Jun-2007

06:48 - 08:17

Time after HW [HH:MM]

5:38

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

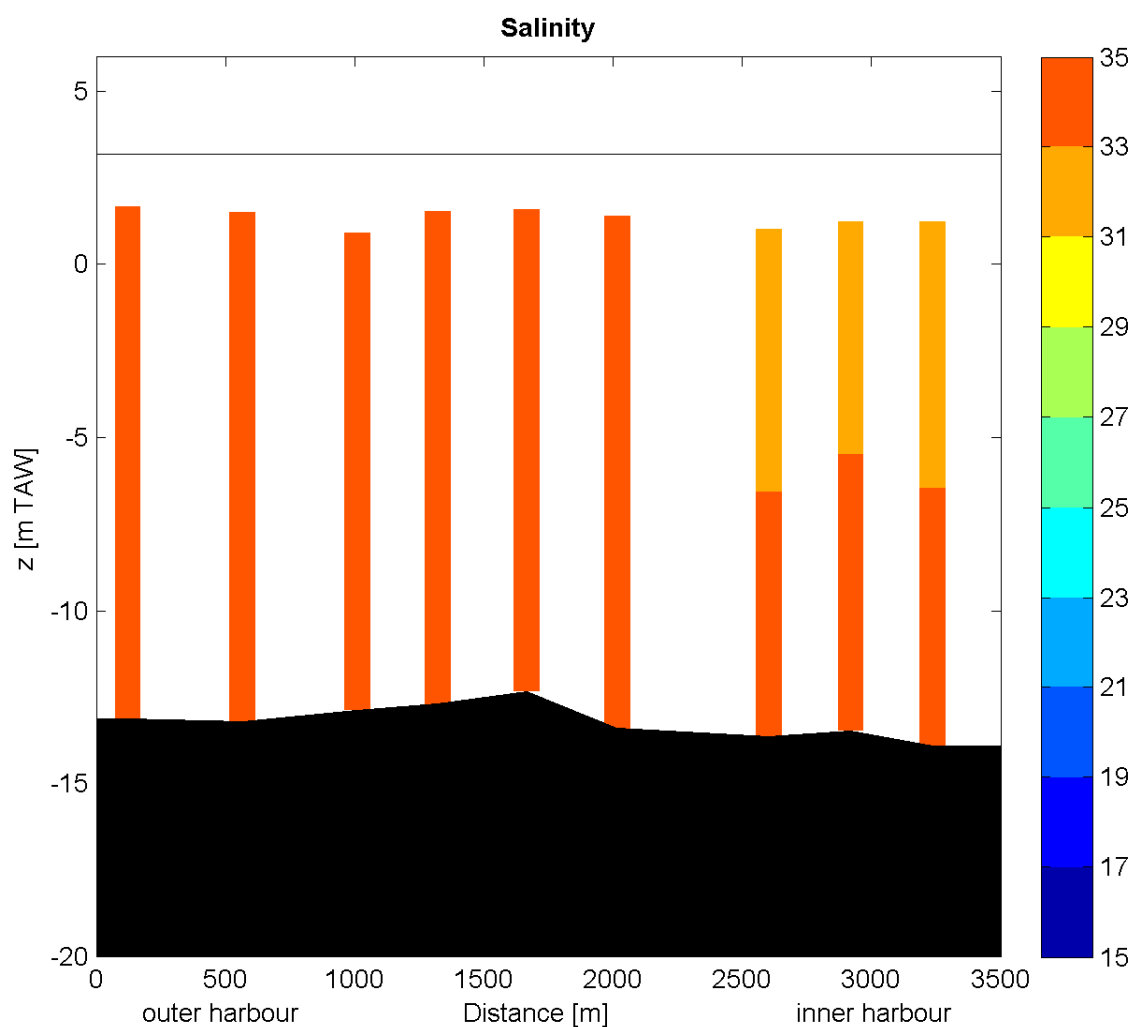
CTD Diver

Sourcefile:

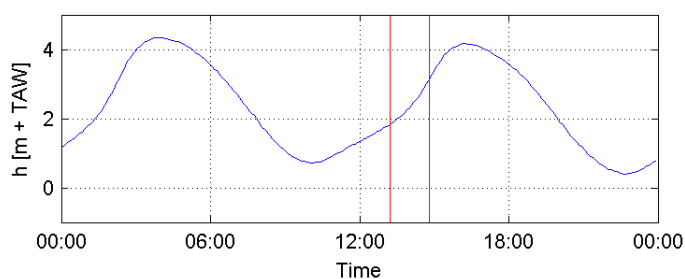
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 05-Jun-2007



Slack water:

03:55: h = 4.35 m+TAW

16:10: h = 4.17 m+TAW

10:00: h = 0.72 m+TAW

Date / Time [MET] :

05-Jun-2007

13:13 - 14:48

Time after HW [HH:MM]

-2:08

Data Processed by:



In association with :



\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

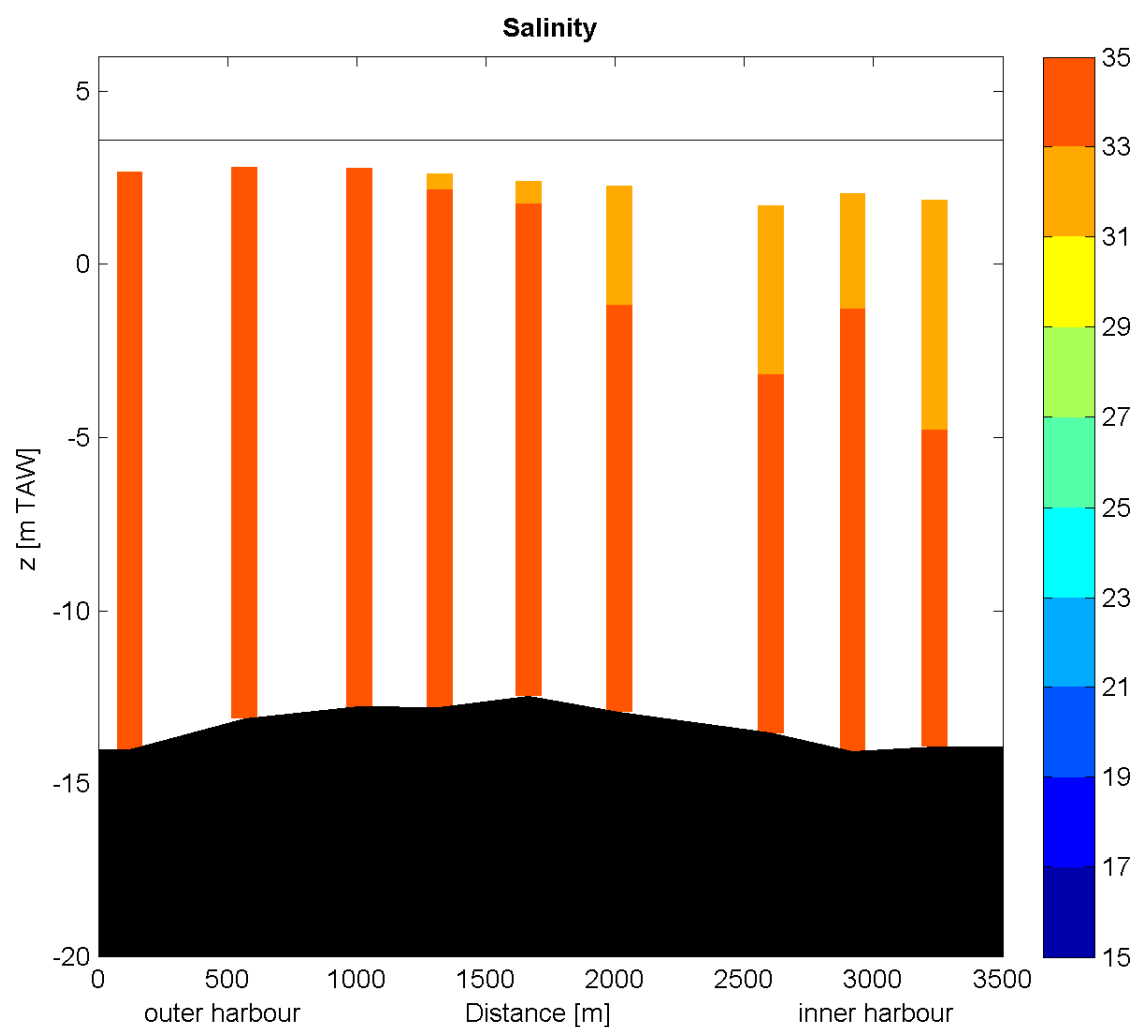
CTD Diver

Sourcefile:

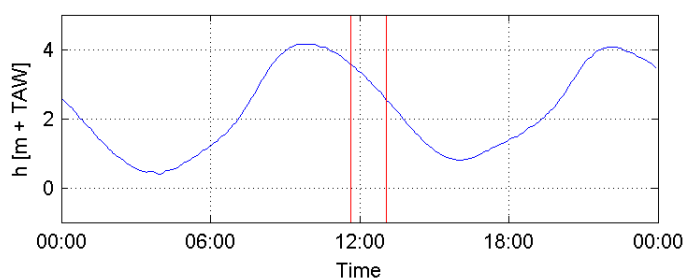
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 11-Jun-2007



Slack water: 03:55:  $h = 0.4$  m+TAW  
15:55:  $h = 0.81$  m+TAW  
10:00:  $h = 4.16$  m+TAW

Date / Time [MET] :

11-Jun-2007

11:37 - 13:04

Time after HW [HH:MM]

-3:33

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

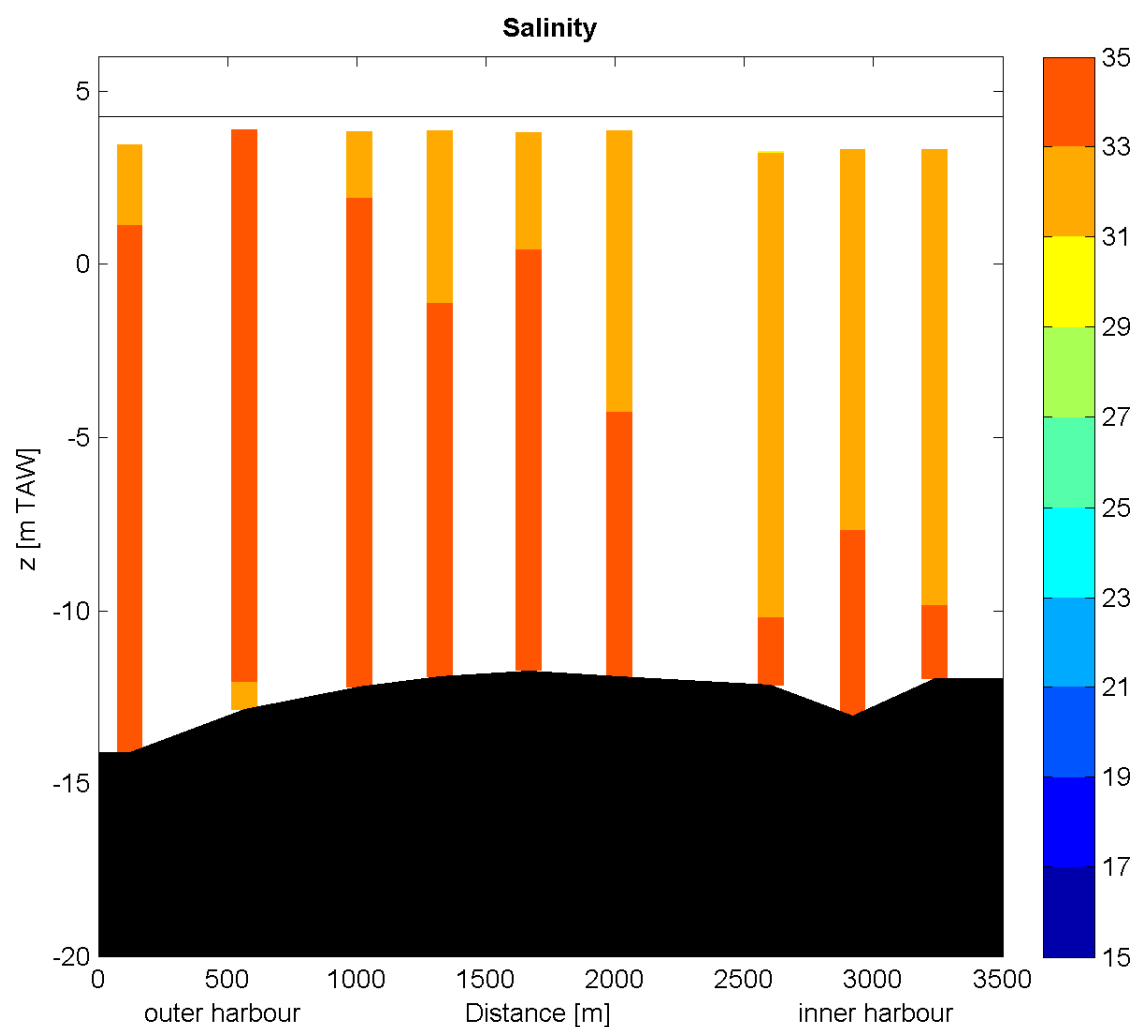
CTD Diver

Sourcefile:

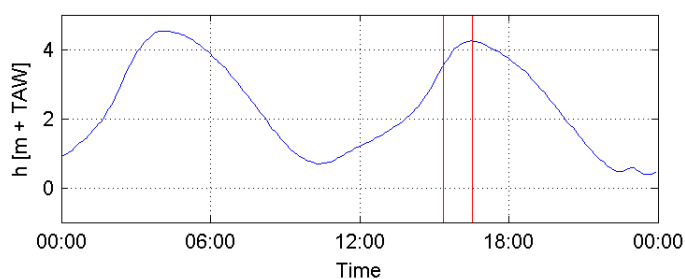
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 19-Jun-2007



Slack water:

04:00: h = 4.53 m+TAW

16:30: h = 4.25 m+TAW

10:20: h = 0.69 m+TAW

Date / Time [MET] :

19-Jun-2007

15:22 - 16:30

Time after HW [HH:MM]

-0:33

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

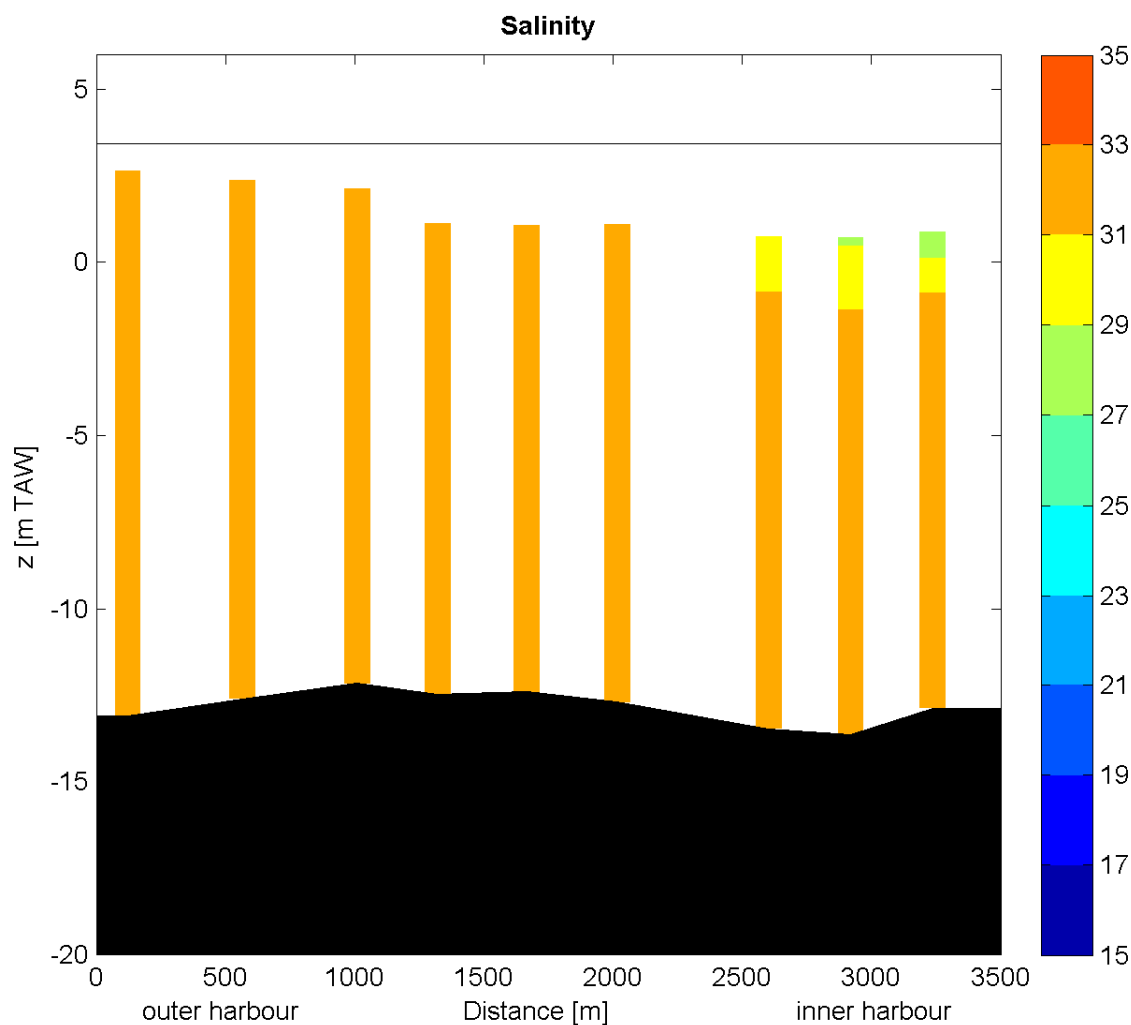
CTD Diver

Sourcefile:

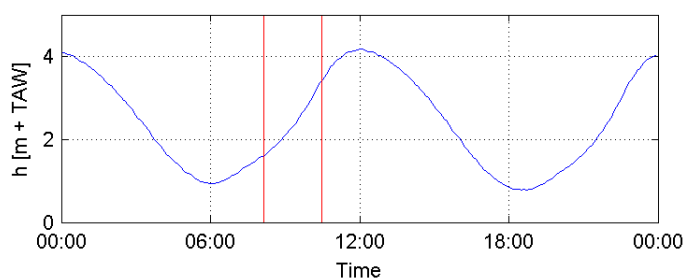
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 28-Jun-2007



Slack water:

23:25: h = NaN m+TAW

12:00: h = 4.17 m+TAW

05:55: h = 0.94 m+TAW

Date / Time [MET] :

28-Jun-2007

08:07 - 10:28

Time after HW [HH:MM]

-2:41

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

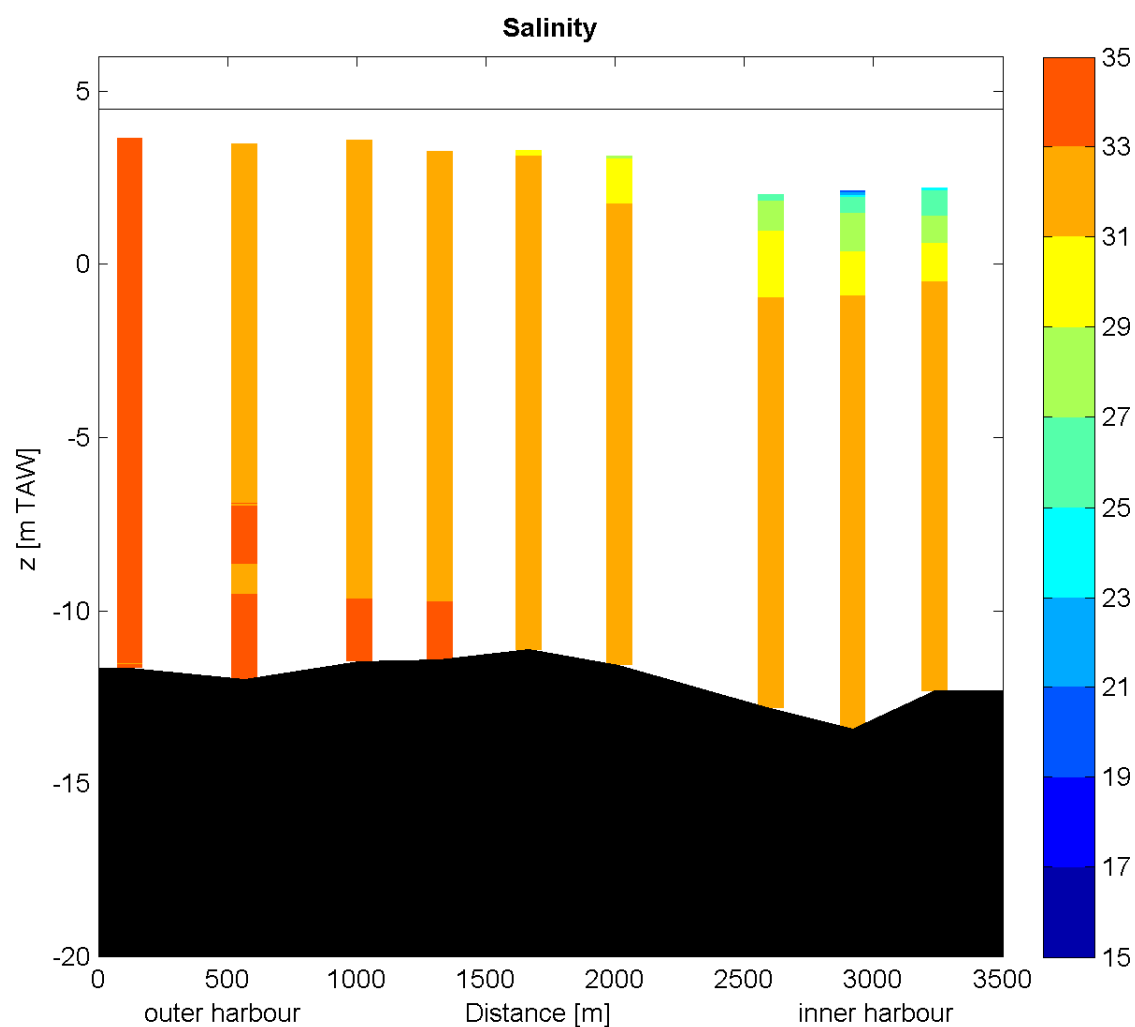
CTD Diver

Sourcefile:

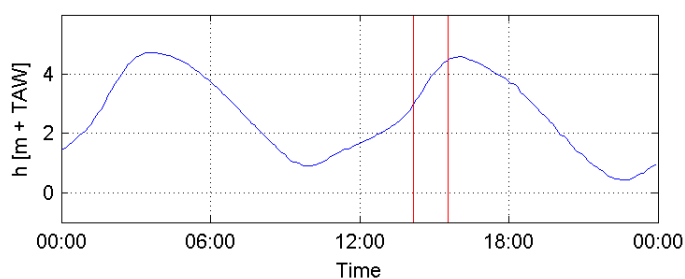
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 04-Jul-2007



Slack water:

03:35: h = 4.73 m+TAW

16:00: h = 4.59 m+TAW

09:50: h = 0.9 m+TAW

Date / Time [MET] :

04-Jul-2007

14:08 - 15:33

Time after HW [HH:MM]

-1:08

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

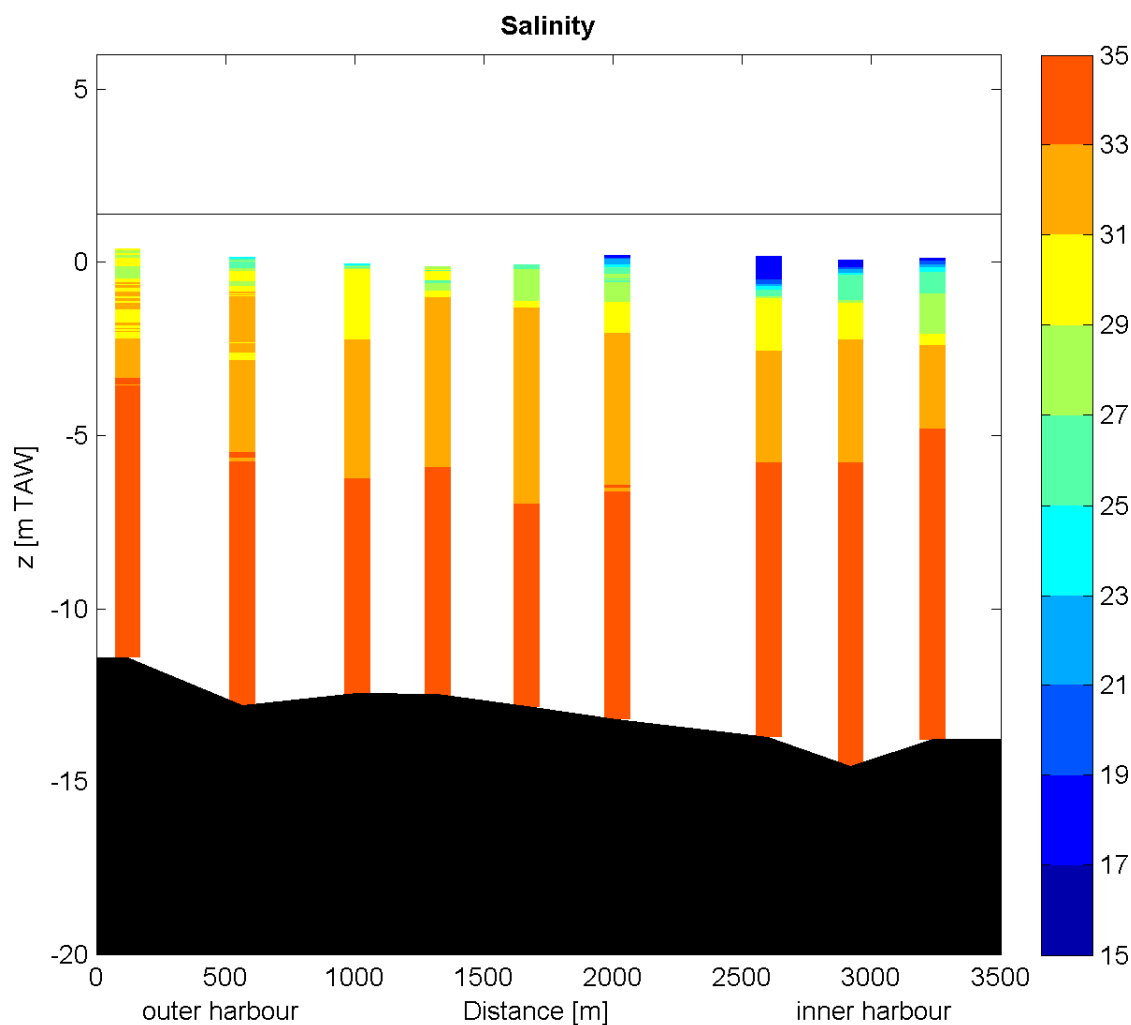
CTD Diver

Sourcefile:

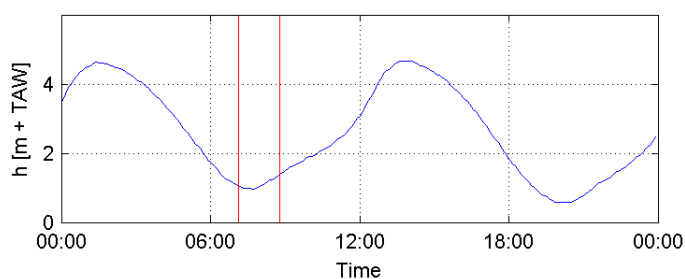
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 30-Jul-2007



Slack water: 01:25:  $h = 4.63$  m+TAW  
 13:40:  $h = 4.66$  m+TAW  
 07:40:  $h = 0.97$  m+TAW

Date / Time [MET] :

30-Jul-2007

07:08 - 08:46

Time after HW [HH:MM]

-5:42

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

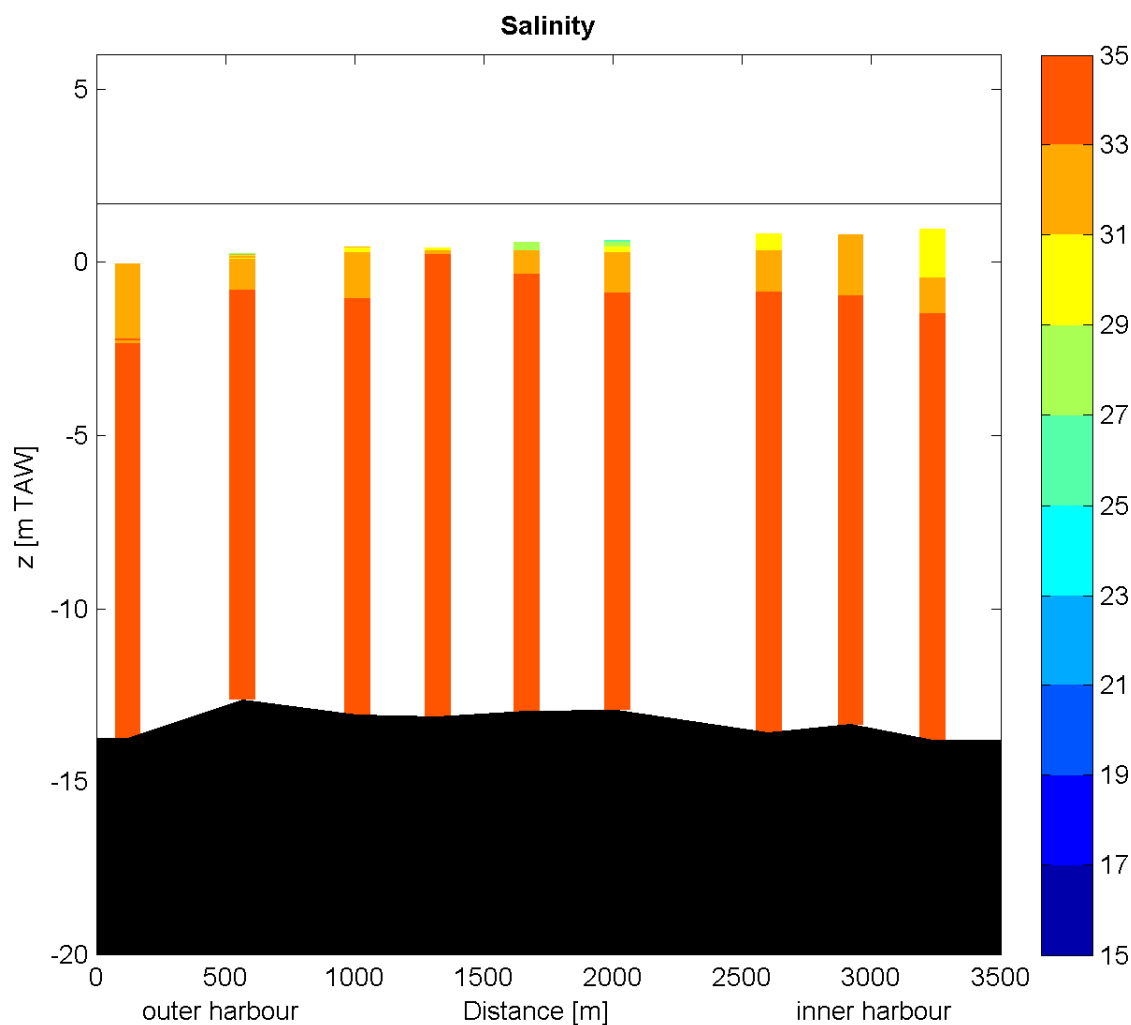
CTD Diver

Sourcefile:

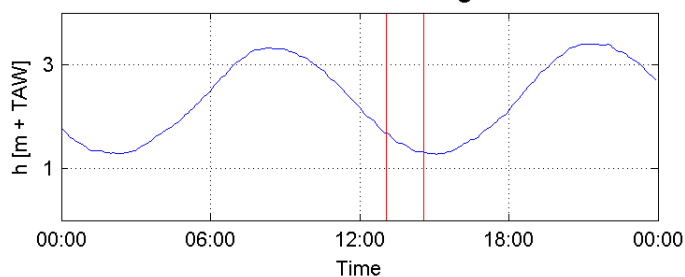
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 23-Aug-2007



Slack water:

02:20: h = 1.28 m+TAW

15:05: h = 1.27 m+TAW

08:15: h = 3.32 m+TAW

Date / Time [MET] :

23-Aug-2007

13:03 - 14:33

Time after HW [HH:MM]

-1:16

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

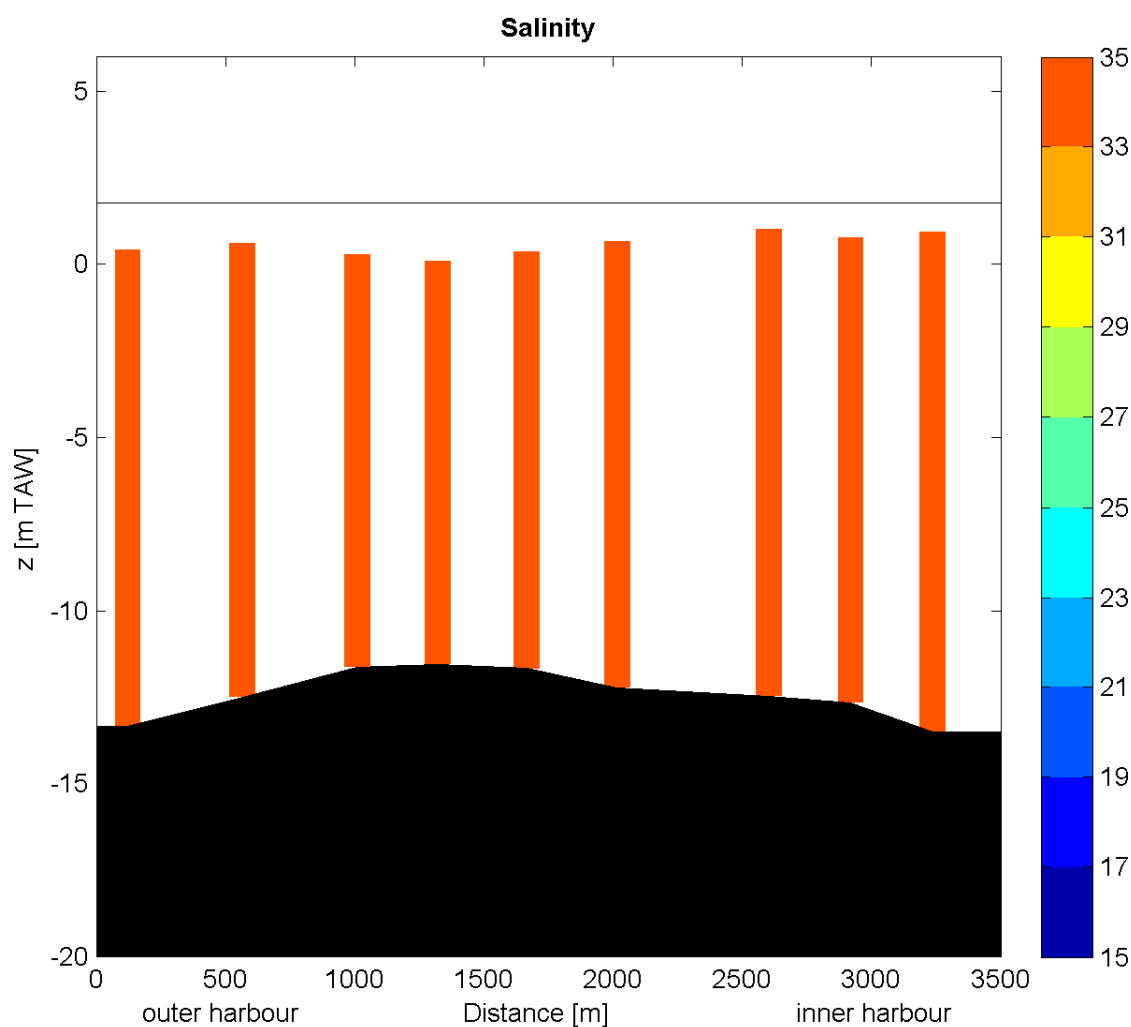
CTD Diver

Sourcefile:

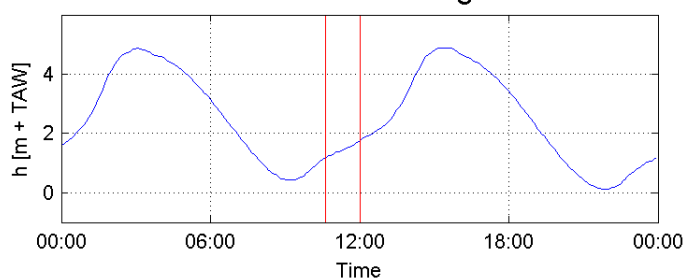
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 31-Aug-2007



Slack water: 03:05:  $h = 4.87$  m+TAW  
 15:30:  $h = 4.89$  m+TAW  
 09:15:  $h = 0.42$  m+TAW

Date / Time [MET] :

31-Aug-2007

10:37 - 12:00

Time after HW [HH:MM]

-4:10

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

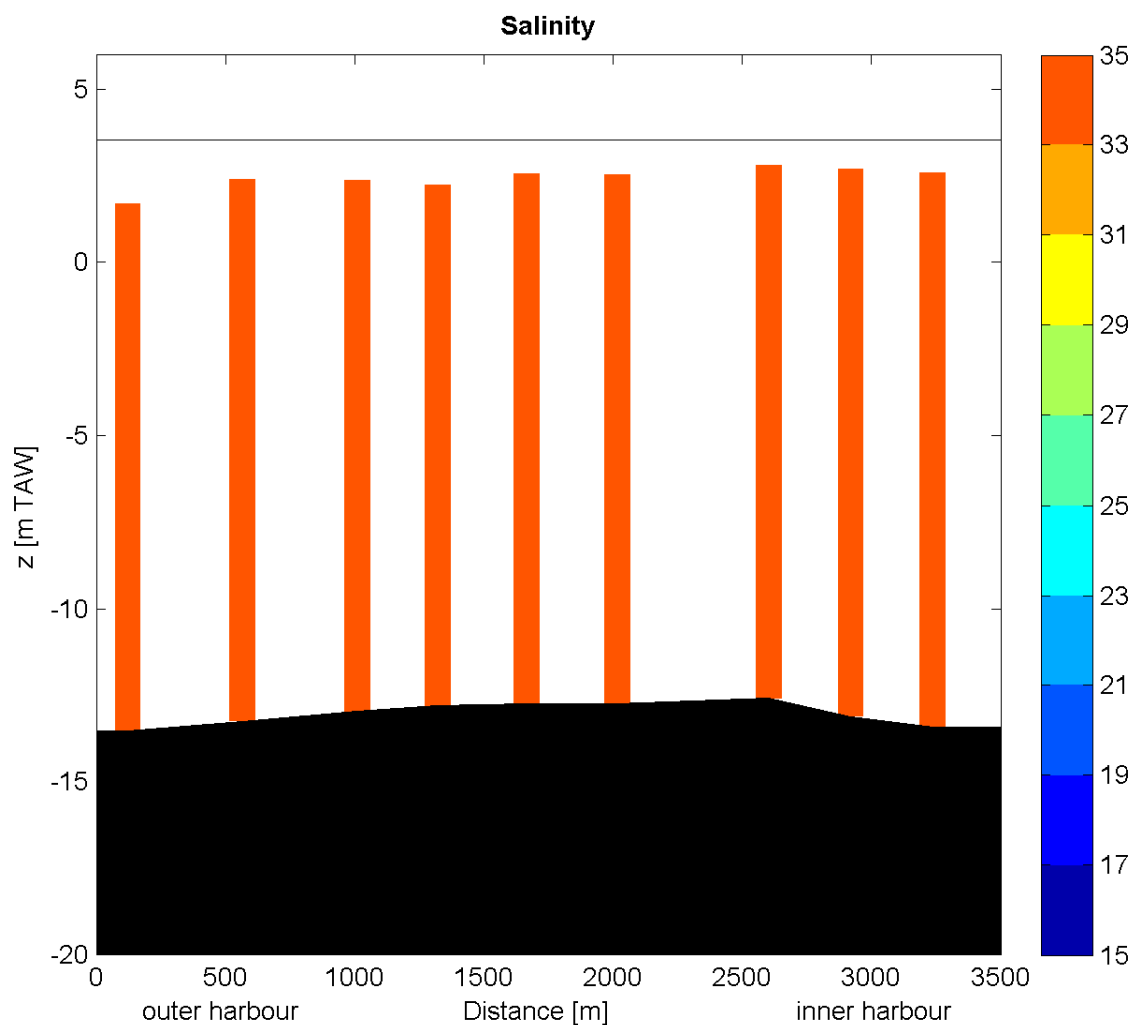
CTD Diver

Sourcefile:

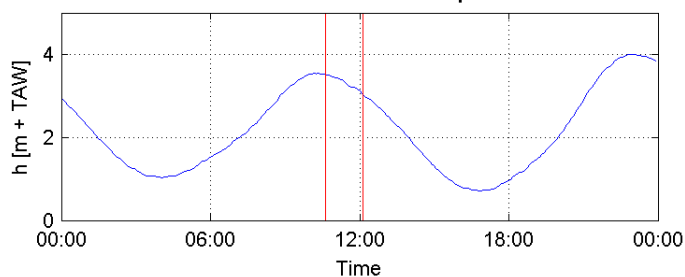
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 07-Sep-2007



Slack water: 04:00: h = 1.03 m+TAW  
16:45: h = 0.72 m+TAW  
10:10: h = 3.54 m+TAW

Date / Time [MET] :

07-Sep-2007

10:37 - 12:08

Time after HW [HH:MM]

-5:21

Data Processed by:



In association with :

\\RA\11292\10.123\BQU





# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

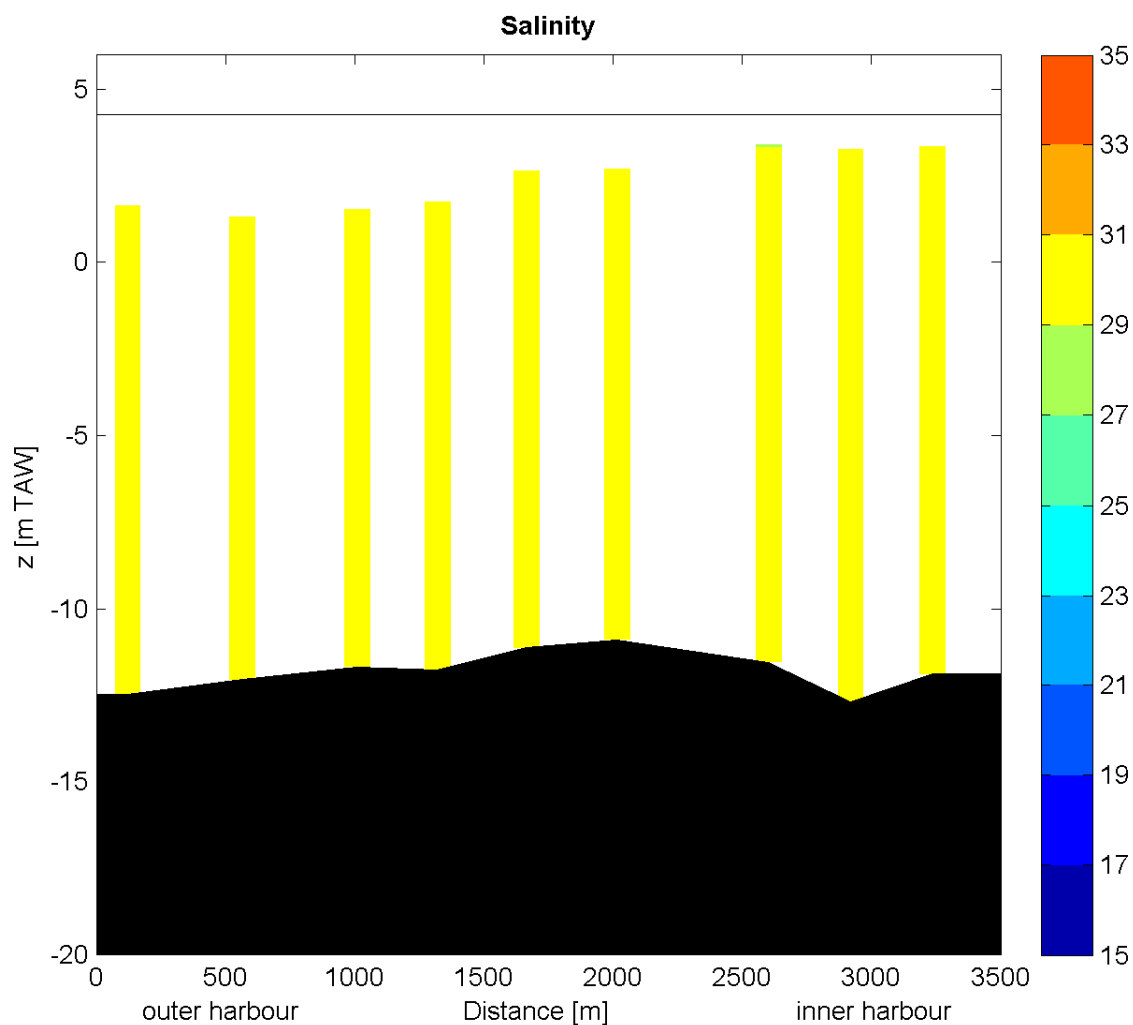
CTD Diver

Sourcefile:

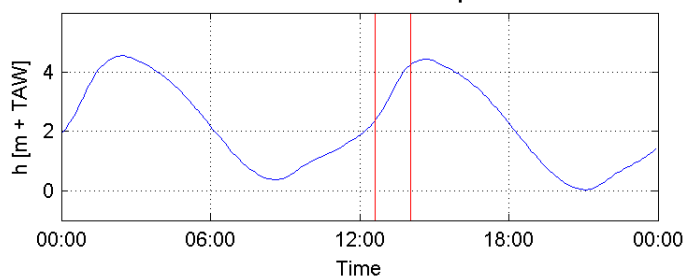
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 13-Sep-2007



Slack water:

02:25: h = 4.55 m+TAW

14:40: h = 4.44 m+TAW

08:30: h = 0.37 m+TAW

Date / Time [MET] :

13-Sep-2007

12:38 - 14:03

Time after HW [HH:MM]

-1:19

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

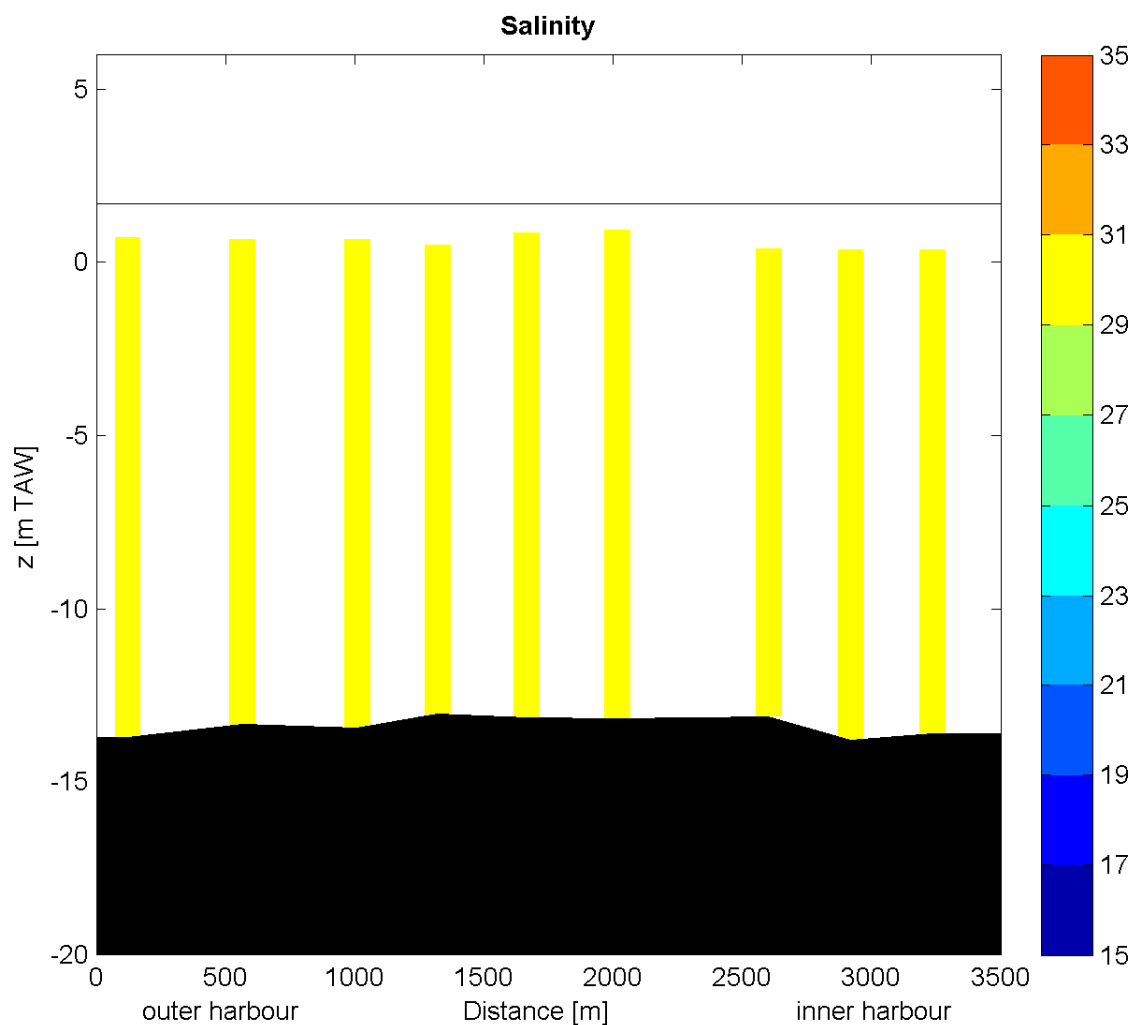
CTD Diver

Sourcefile:

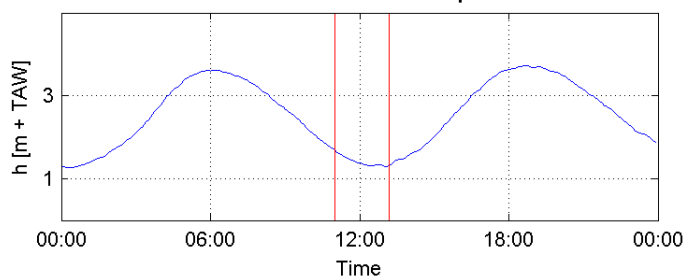
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 20-Sep-2007



Slack water:

06:10: h = 3.62 m+TAW

18:35: h = 3.72 m+TAW

13:00: h = 1.3 m+TAW

Date / Time [MET] :

20-Sep-2007

11:00 - 13:11

Time after HW [HH:MM]

5:56

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

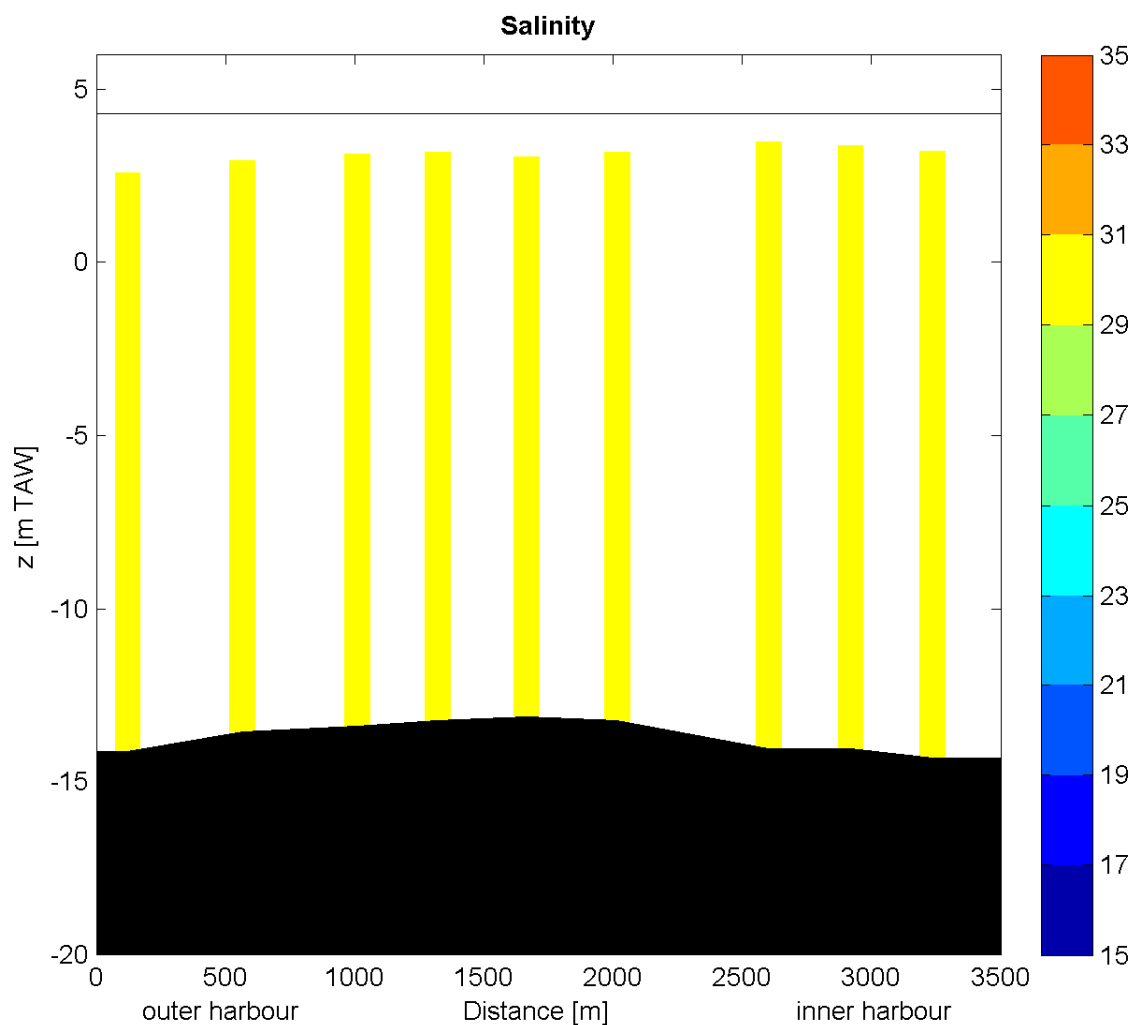
CTD Diver

Sourcefile:

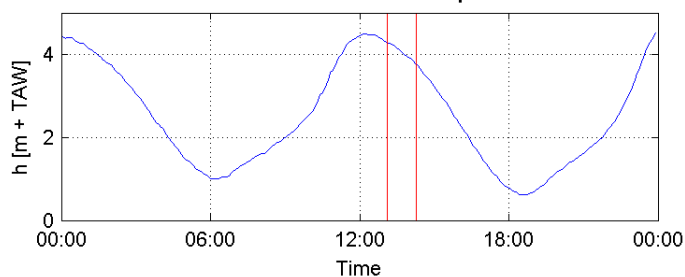
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 25-Sep-2007



Slack water: 23:50: h = NaN m+TAW  
12:10: h = 4.49 m+TAW  
06:10: h = 1 m+TAW

Date / Time [MET] :

25-Sep-2007

13:05 - 14:16

Time after HW [HH:MM]

1:31

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

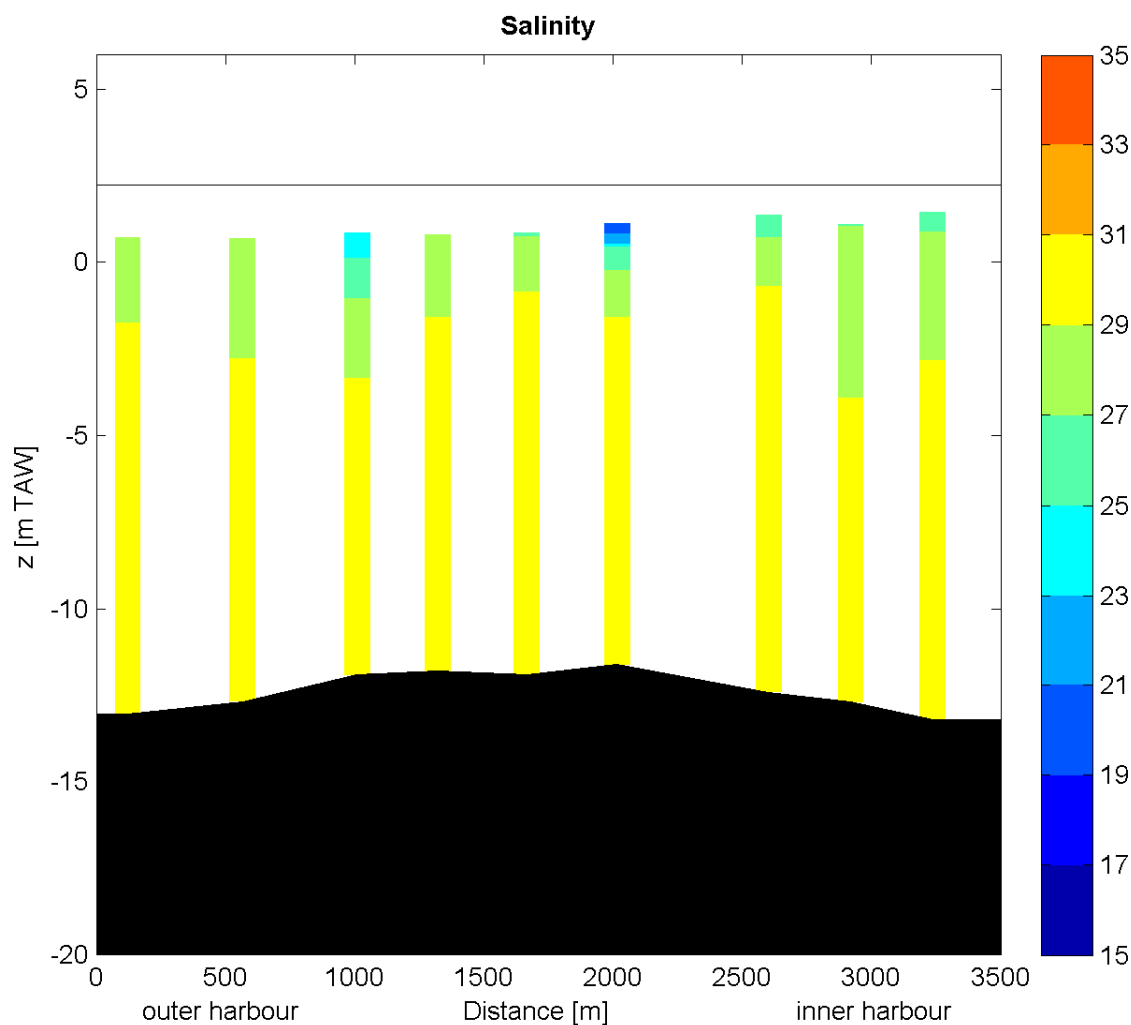
CTD Diver

Sourcefile:

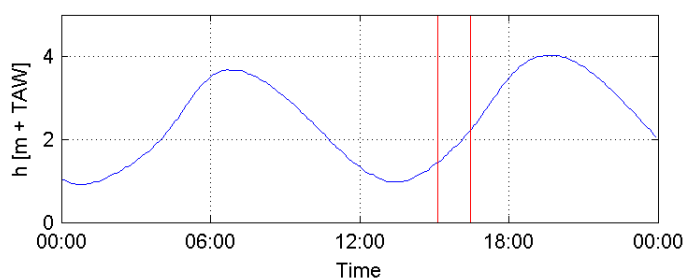
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 04-Oct-2007



Slack water:

00:35: h = 0.92 m+TAW

13:25: h = 0.97 m+TAW

06:40: h = 3.68 m+TAW

Date / Time [MET] :

04-Oct-2007

15:08 - 16:26

Time after HW [HH:MM]

2:22

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

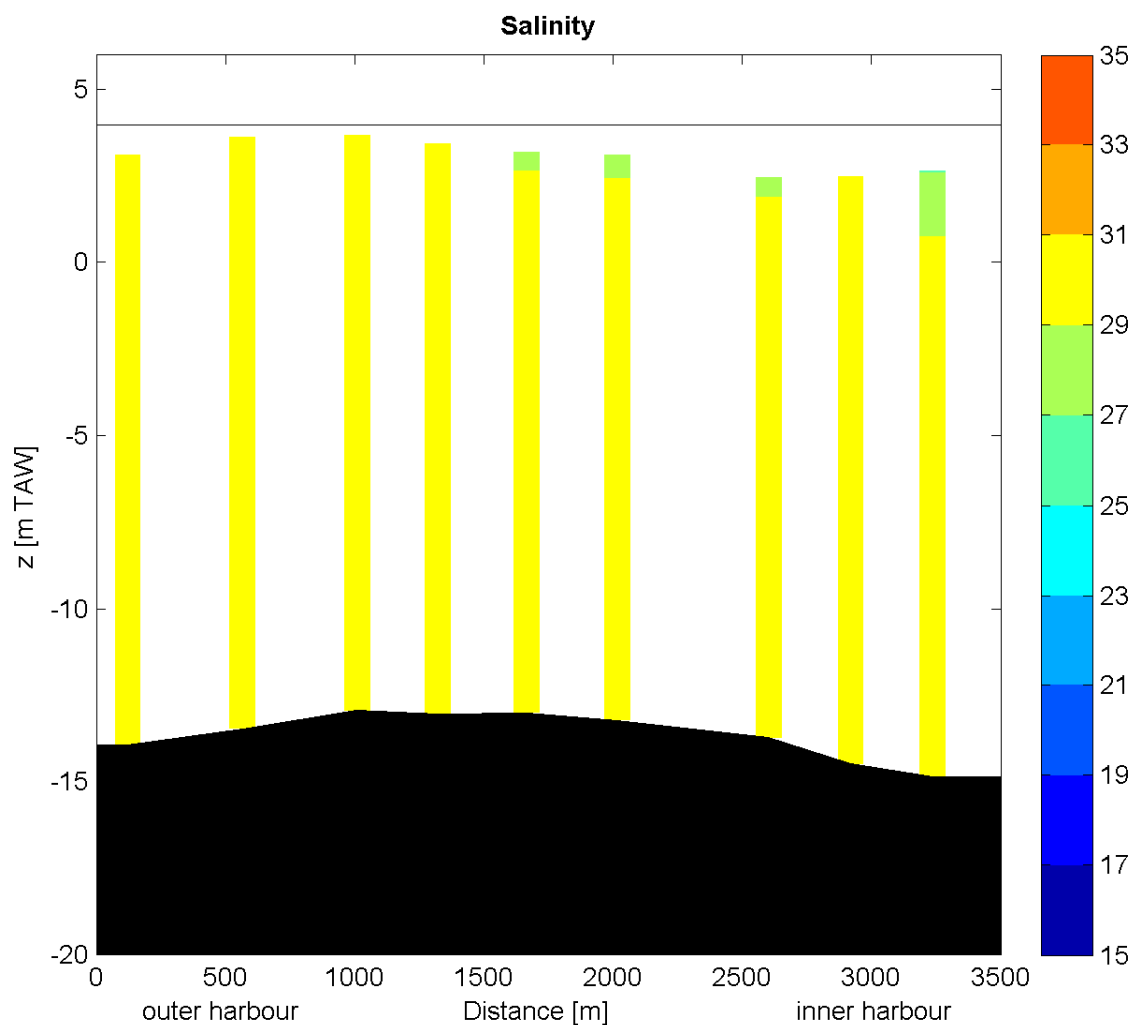
CTD Diver

Sourcefile:

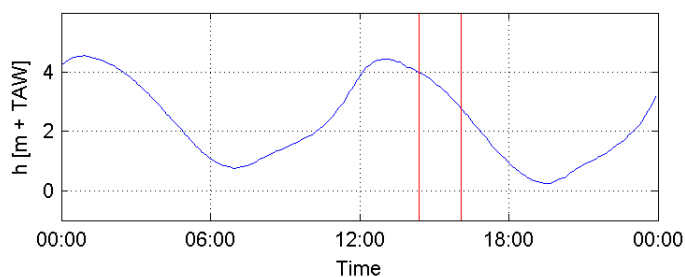
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 10-Oct-2007



Slack water: 00:55:  $h = 4.55$  m+TAW  
 13:00:  $h = 4.44$  m+TAW  
 06:55:  $h = 0.76$  m+TAW

Date / Time [MET] :

10-Oct-2007

14:24 - 16:03

Time after HW [HH:MM]

2:14

Data Processed by:



In association with :

\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

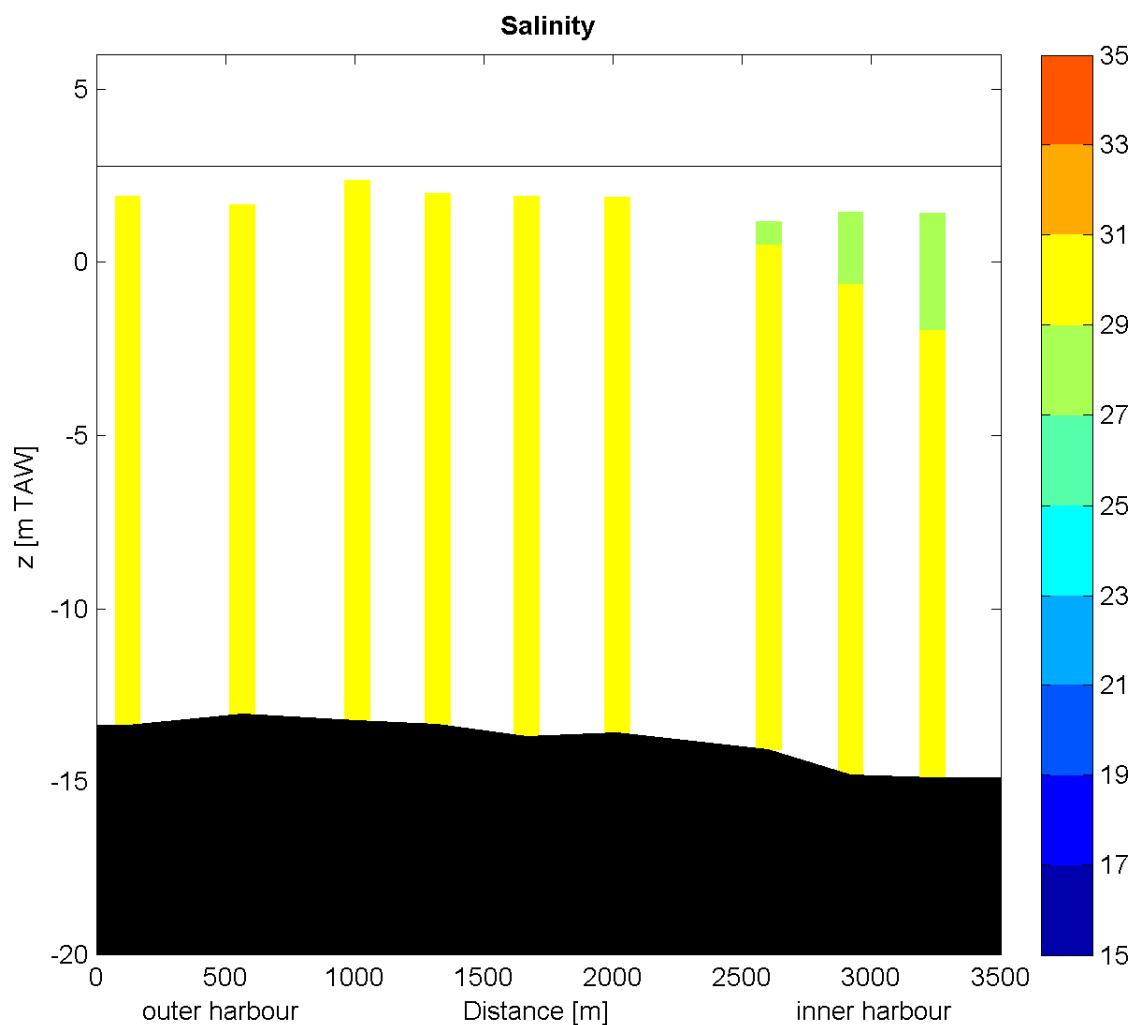
CTD Diver

Sourcefile:

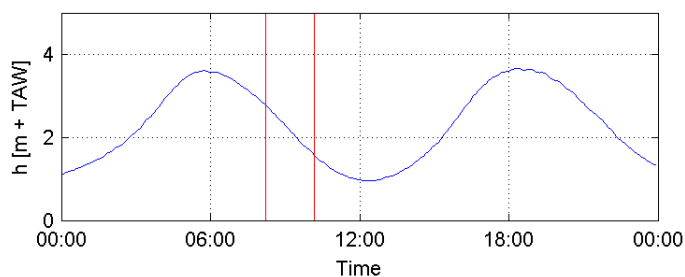
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 19-Oct-2007



Slack water: 05:45: h = 3.61 m+TAW  
18:20: h = 3.66 m+TAW  
12:10: h = 0.95 m+TAW

Date / Time [MET] :

19-Oct-2007

08:12 - 10:09

Time after HW [HH:MM]

3:25

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

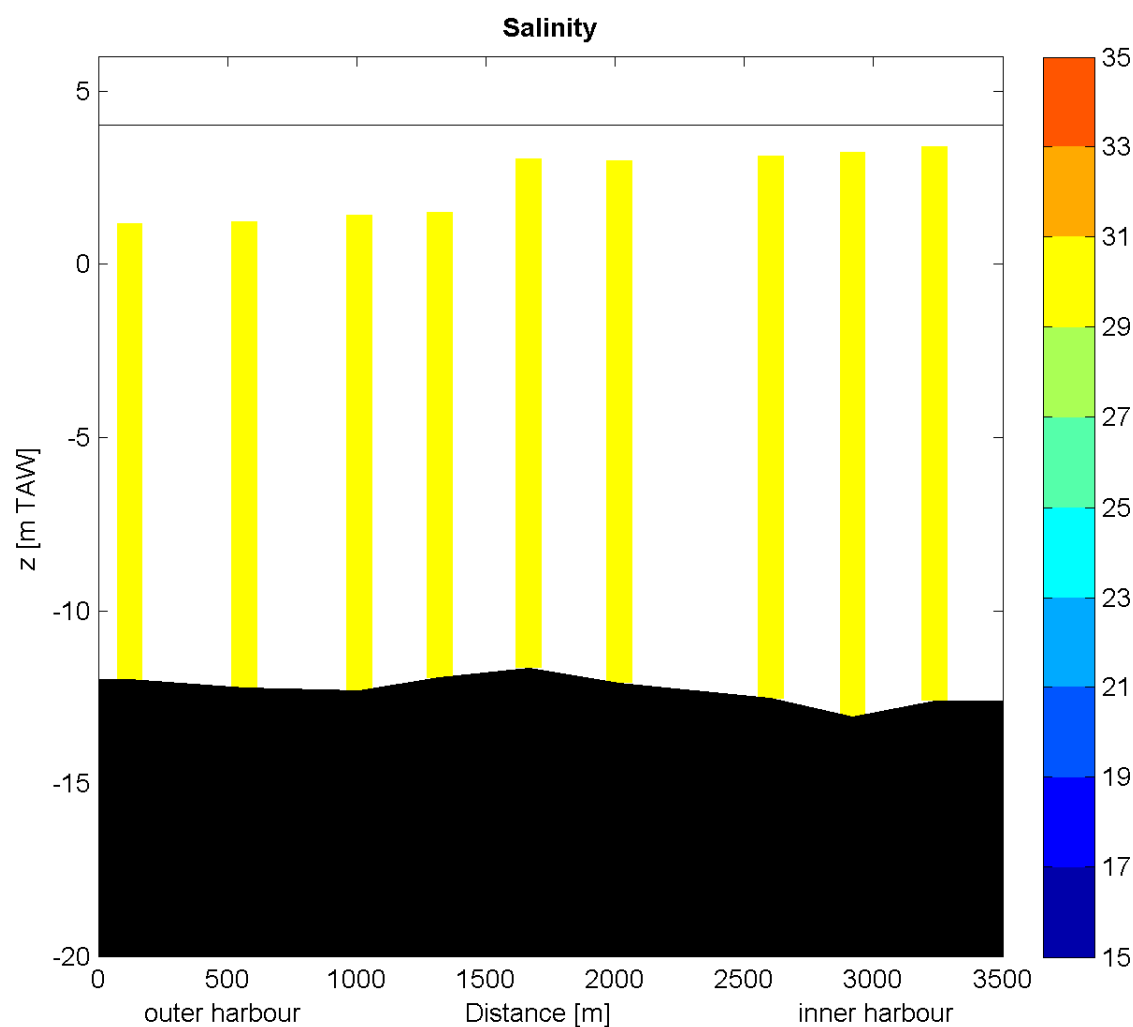
CTD Diver

Sourcefile:

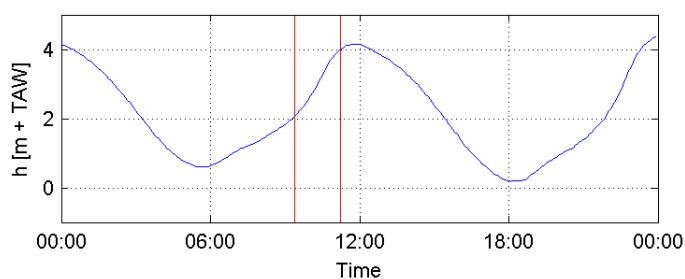
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 24-Oct-2007



Slack water:

23:35:  $h = \text{NaN m} + \text{TAW}$

11:50:  $h = 4.16 \text{ m} + \text{TAW}$

05:30:  $h = 0.6 \text{ m} + \text{TAW}$

Date / Time [MET] :

24-Oct-2007

09:23 - 11:13

Time after HW [HH:MM]

-1:31

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

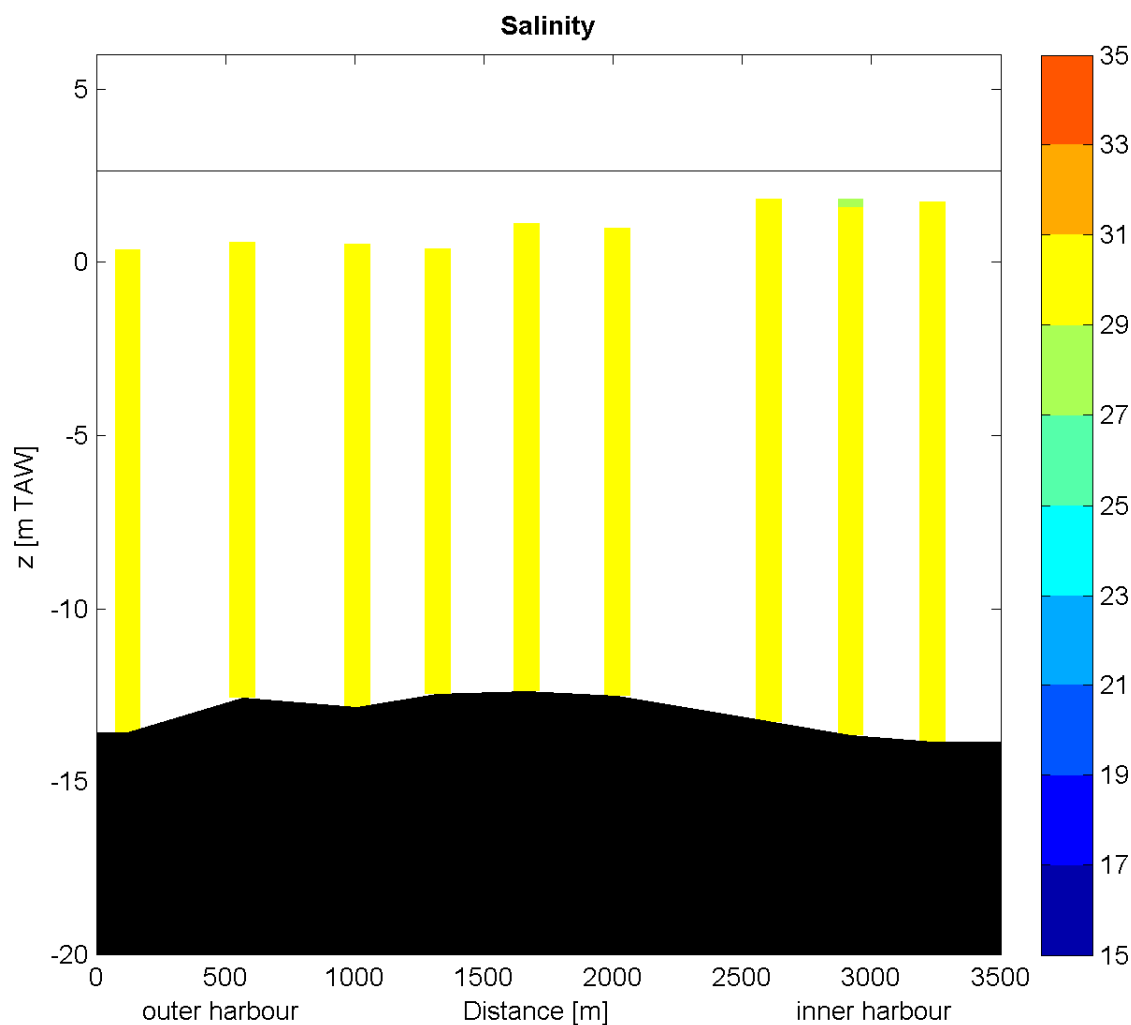
CTD Diver

Sourcefile:

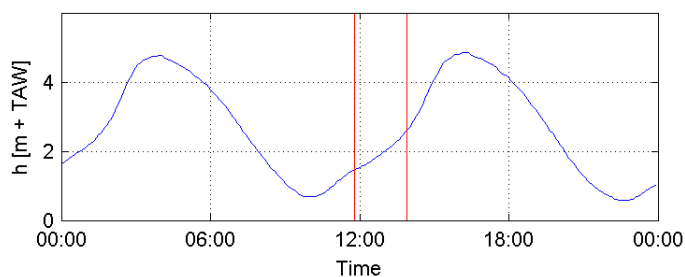
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 30-Oct-2007



Slack water:

03:55: h = 4.77 m+TAW

16:15: h = 4.85 m+TAW

10:00: h = 0.68 m+TAW

Date / Time [MET] :

30-Oct-2007

11:48 - 13:54

Time after HW [HH:MM]

-3:23

Data Processed by:



In association with :



\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

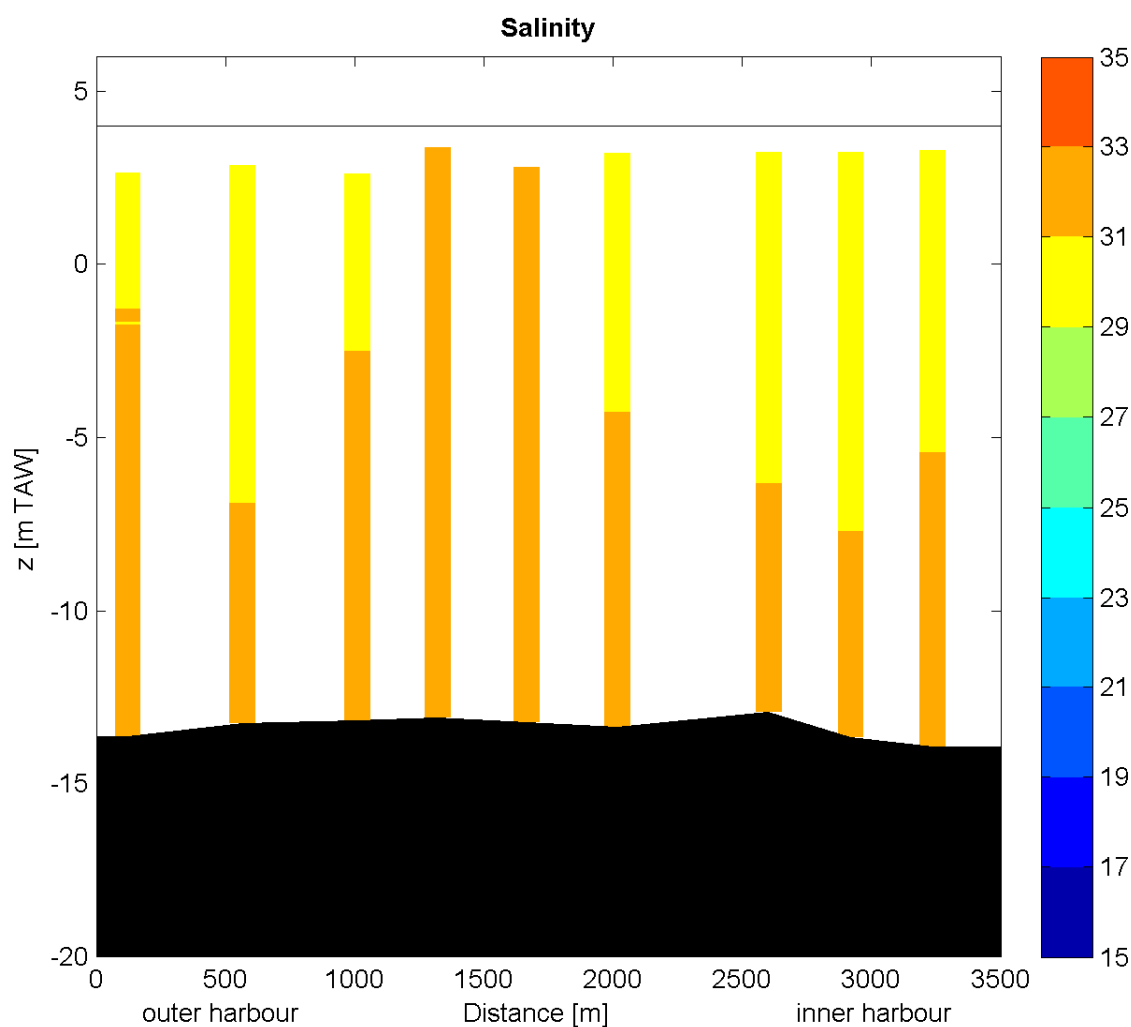
CTD Diver

Sourcefile:

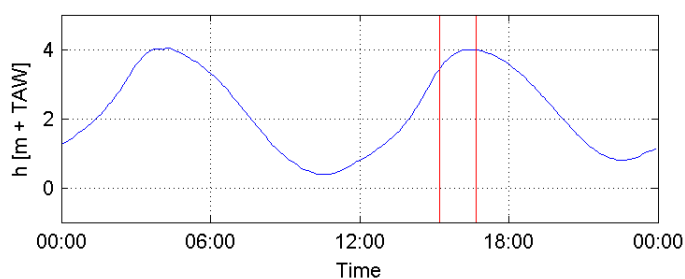
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 15-Nov-2007



Slack water: 04:15:  $h = 4.03$  m+TAW  
 16:15:  $h = 4$  m+TAW  
 10:25:  $h = 0.38$  m+TAW

Date / Time [MET] :

15-Nov-2007

15:13 - 16:40

Time after HW [HH:MM]

-0:18

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

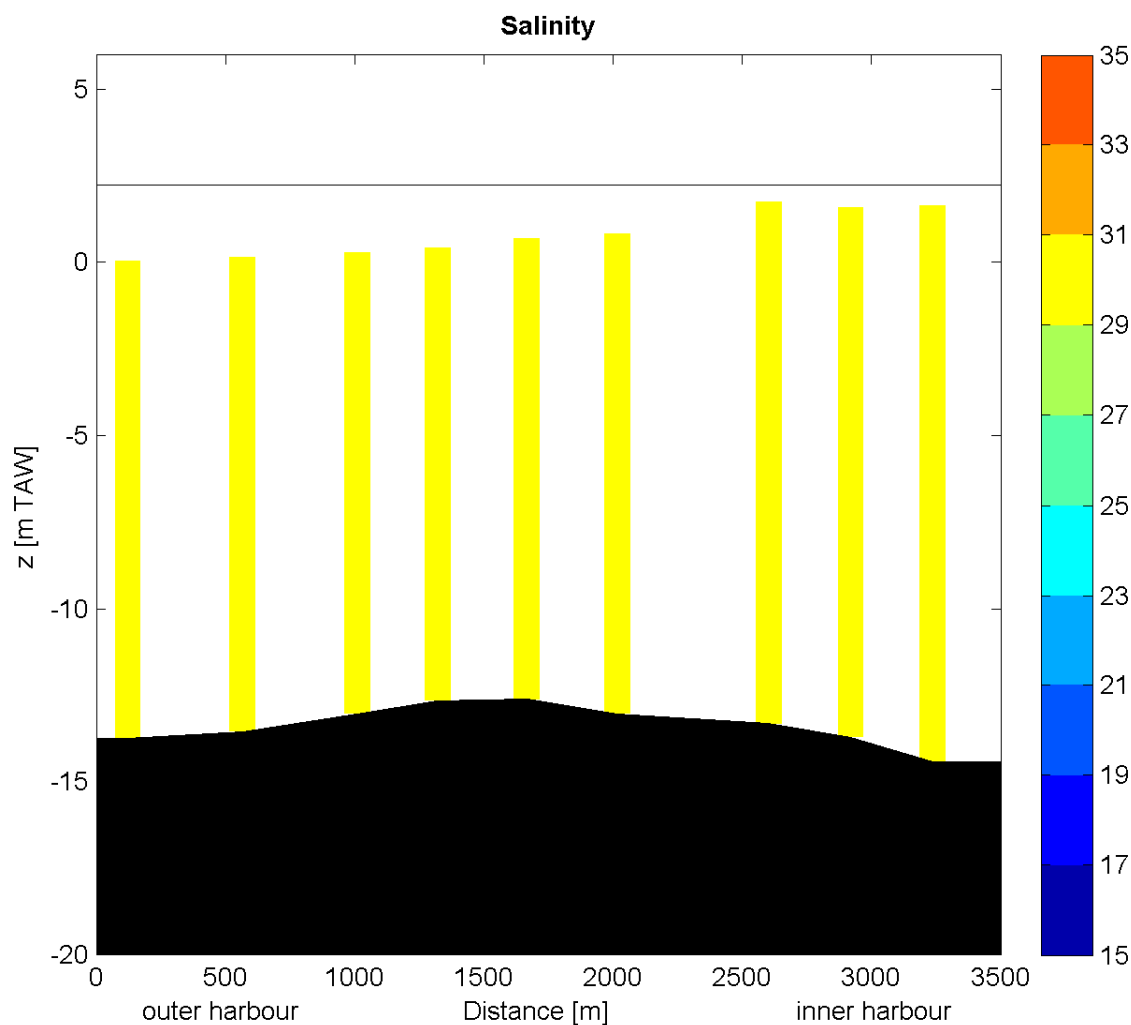
CTD Diver

Sourcefile:

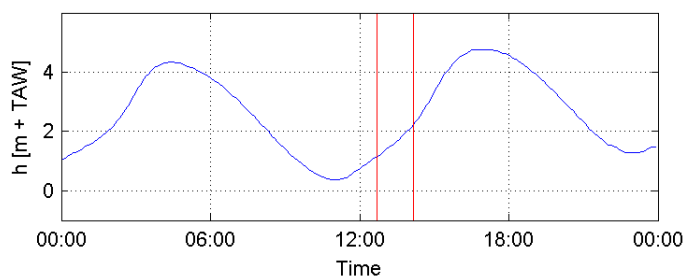
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 29-Nov-2007



Slack water: 04:20: h = 4.34 m+TAW  
16:55: h = 4.77 m+TAW  
11:00: h = 0.36 m+TAW

Date / Time [MET] :

29-Nov-2007

12:41 - 14:10

Time after HW [HH:MM]

-3:29

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

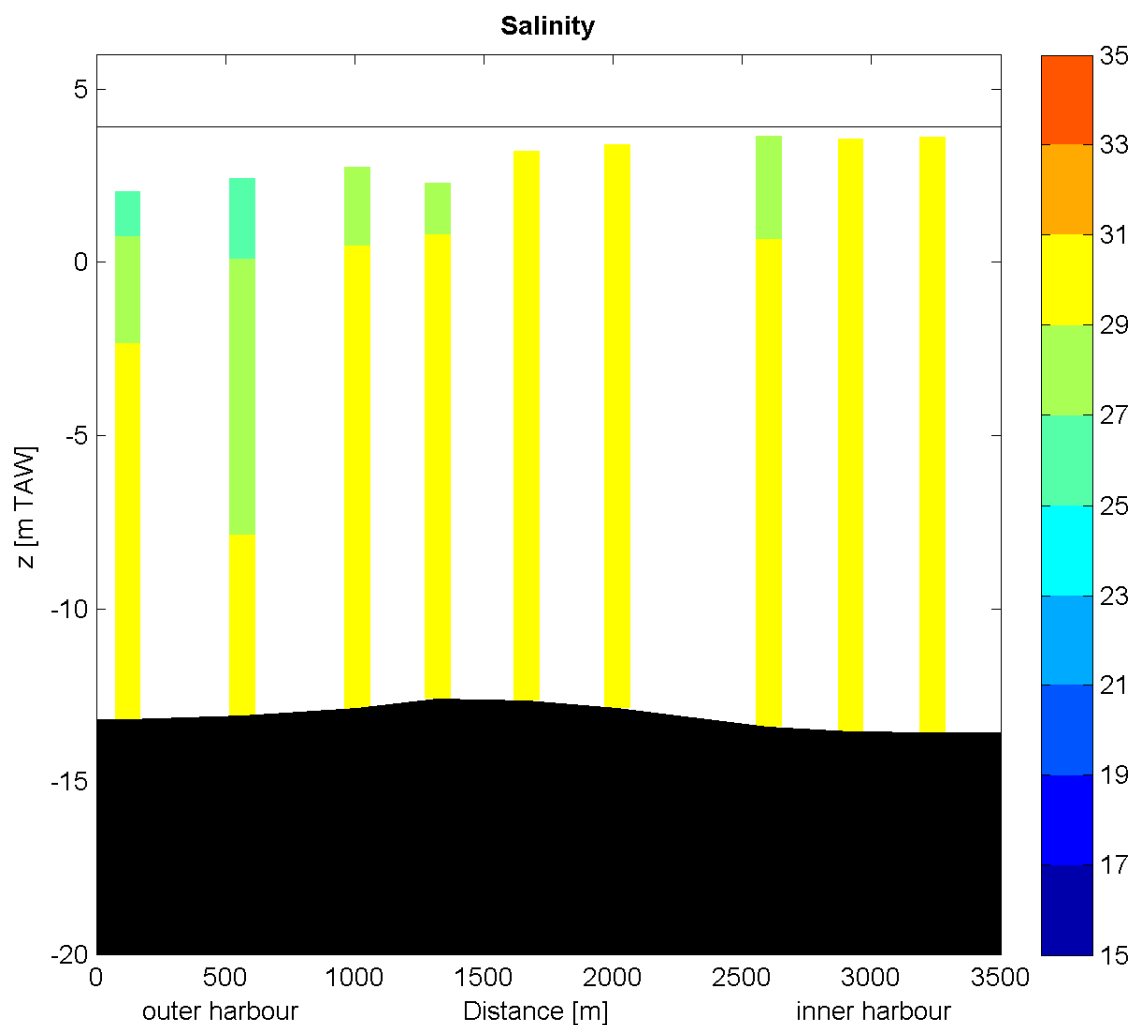
CTD Diver

Sourcefile:

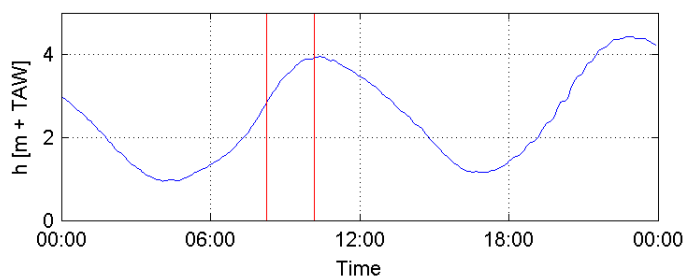
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 05-Dec-2007



Slack water:

21:55: h = NaN m+TAW

10:25: h = 3.96 m+TAW

04:05: h = 0.94 m+TAW

Date / Time [MET] :

05-Dec-2007

08:15 - 10:10

Time after HW [HH:MM]

-1:11

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

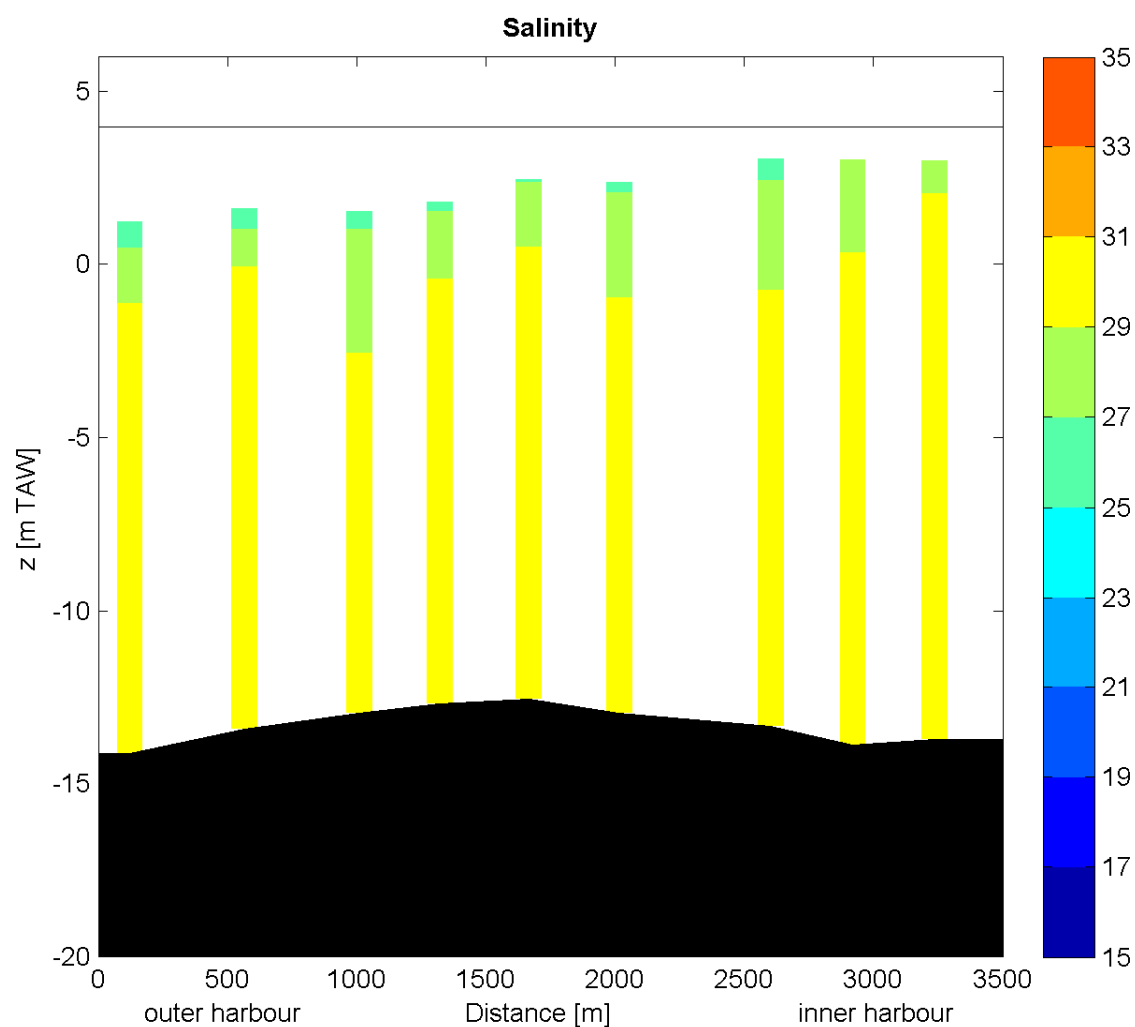
CTD Diver

Sourcefile:

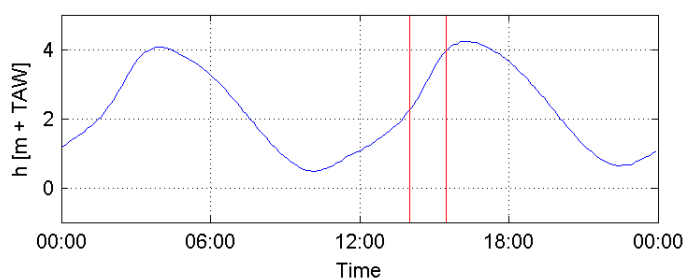
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 14-Dec-2007



Slack water:

03:55: h = 4.07 m+TAW

16:10: h = 4.23 m+TAW

10:05: h = 0.48 m+TAW

Date / Time [MET] :

14-Dec-2007

13:59 - 15:28

Time after HW [HH:MM]

-1:25

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

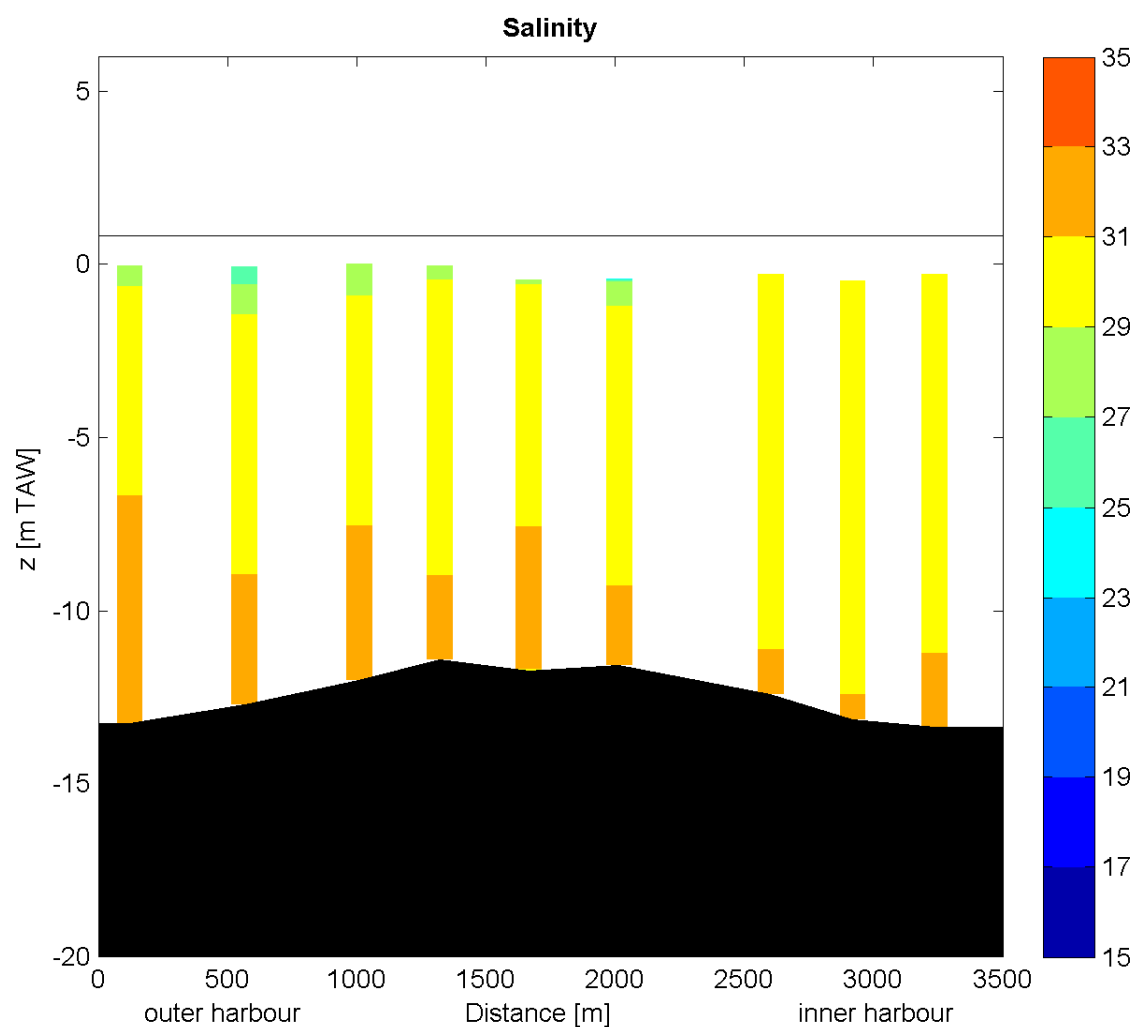
CTD Diver

Sourcefile:

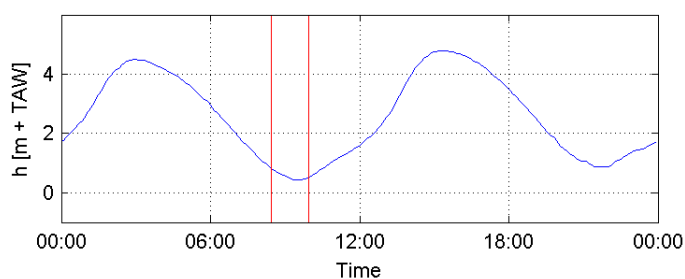
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 11-Jan-2008



Slack water: 02:55: h = 4.49 m+TAW  
15:20: h = 4.8 m+TAW  
09:30: h = 0.43 m+TAW

Date / Time [MET] :

11-Jan-2008

08:26 - 09:57

Time after HW [HH:MM]

6:17

Data Processed by:



In association with :

\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

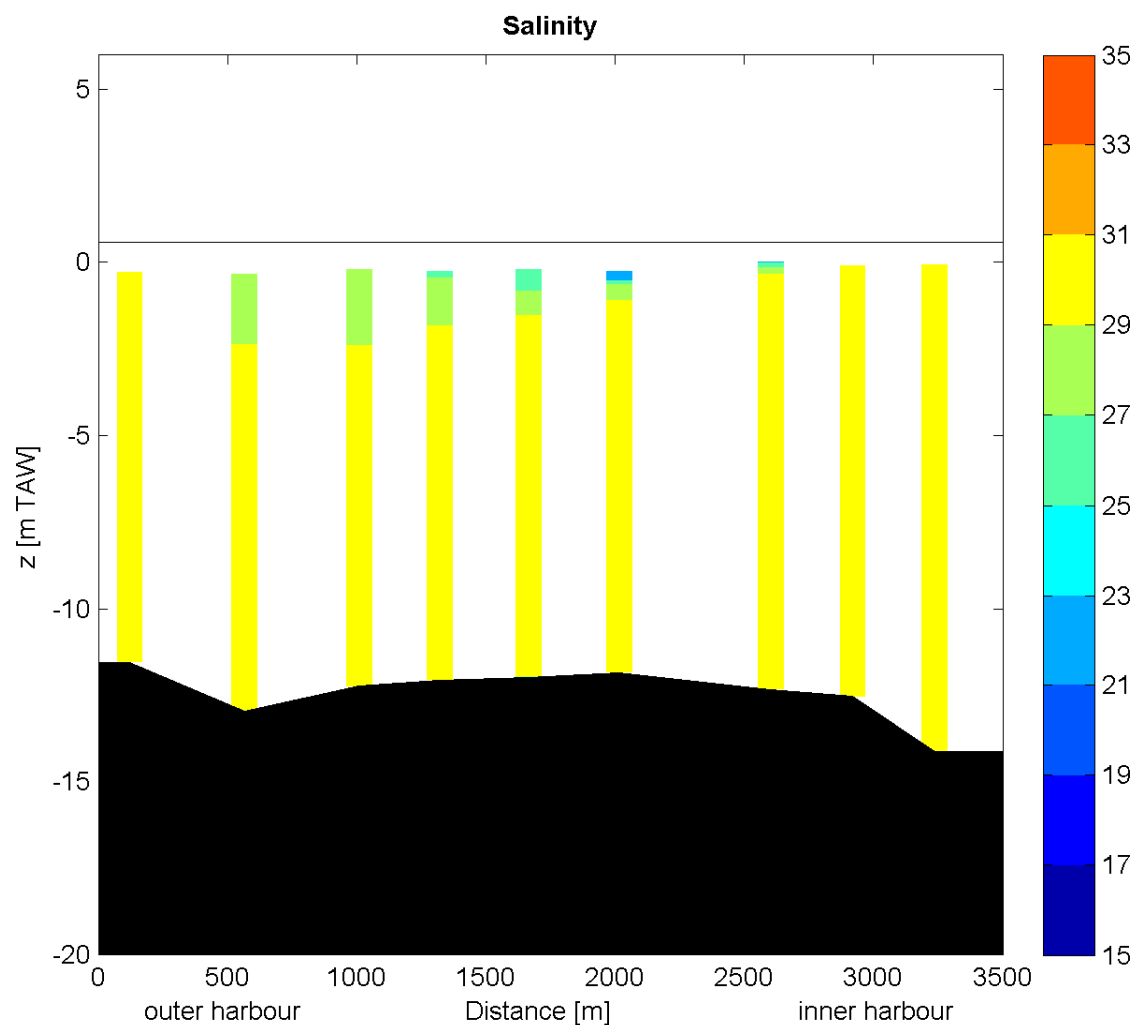
CTD Diver

Sourcefile:

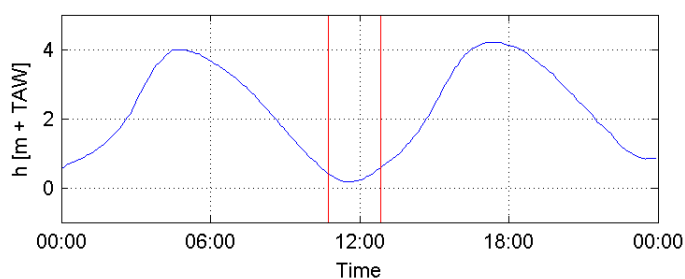
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 14-Jan-2008



Slack water: 04:40: h = 4 m+TAW  
17:20: h = 4.21 m+TAW  
11:25: h = 0.17 m+TAW

Date / Time [MET] :

14-Jan-2008

10:44 - 12:49

Time after HW [HH:MM]

-5:32

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

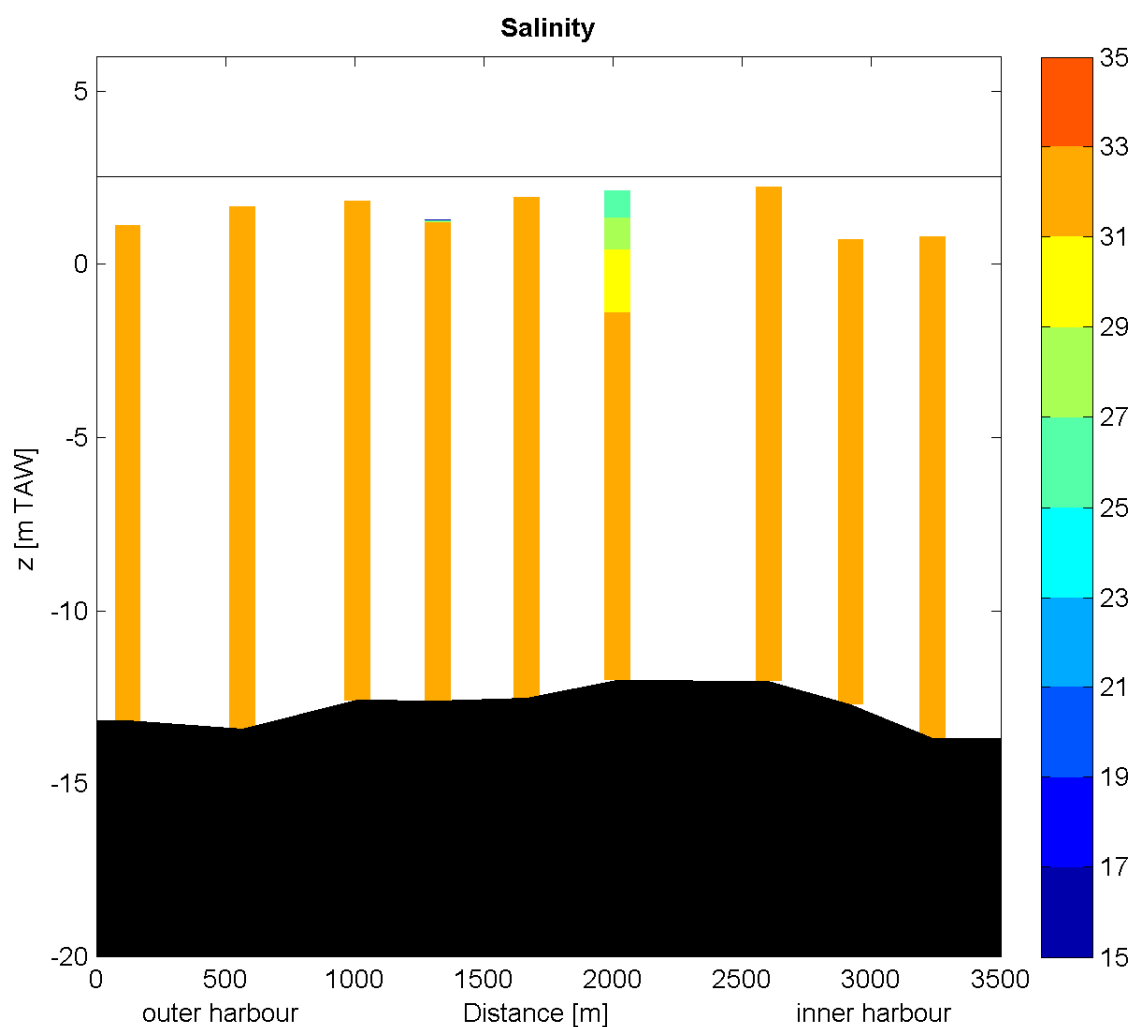
CTD Diver

Sourcefile:

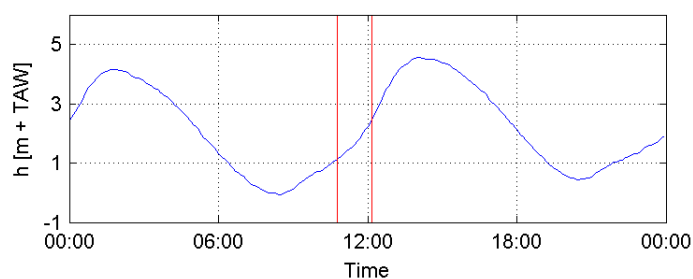
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 23-Jan-2008



Slack water: 01:45:  $h = 4.17$  m+TAW  
 14:00:  $h = 4.55$  m+TAW  
 08:25:  $h = -0.06$  m+TAW

Date / Time [MET] :

23-Jan-2008

10:45 - 12:11

Time after HW [HH:MM]

-2:31

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

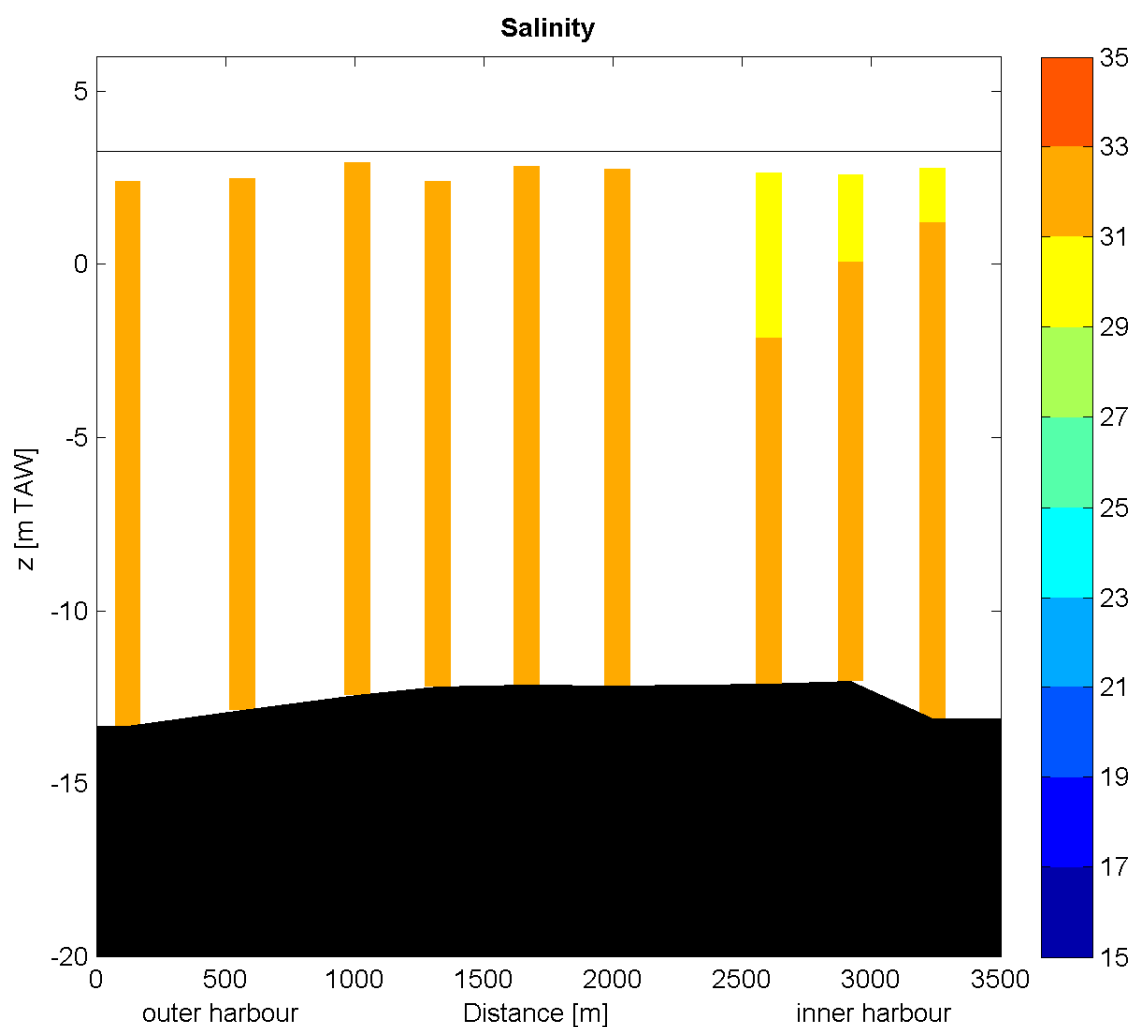
CTD Diver

Sourcefile:

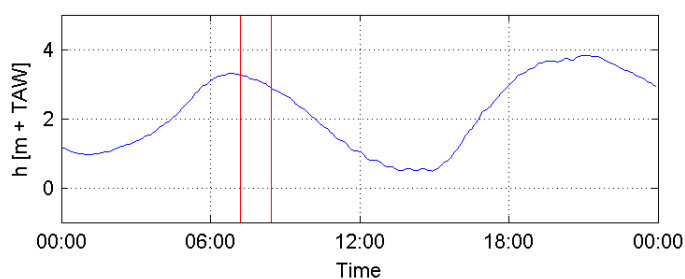
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 31-Jan-2008



Slack water: 01:05: h = 0.95 m+TAW  
14:55: h = 0.48 m+TAW  
06:45: h = 3.31 m+TAW

Date / Time [MET] :

31-Jan-2008

07:12 - 08:26

Time after HW [HH:MM]

-7:05

Data Processed by:



In association with :



\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

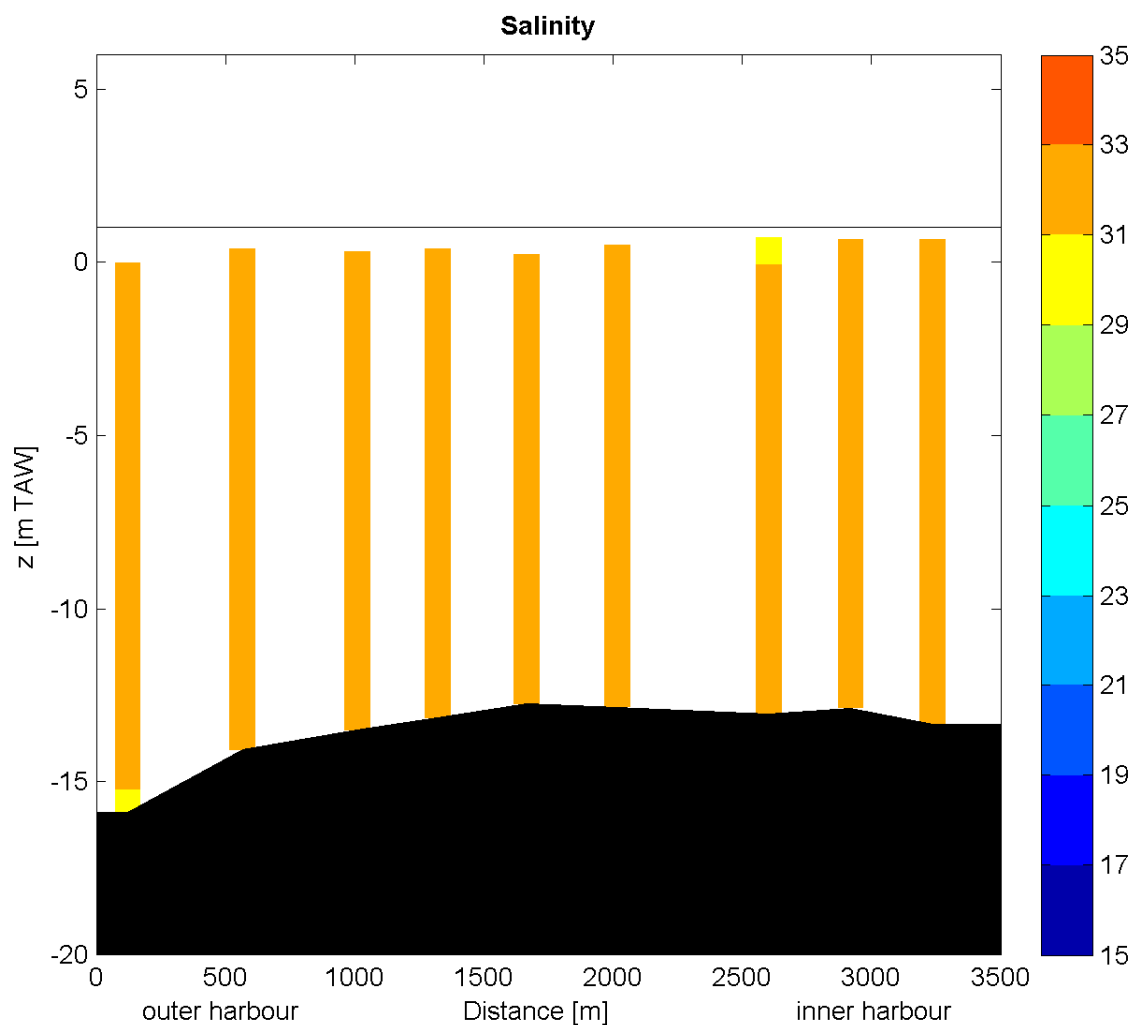
CTD Diver

Sourcefile:

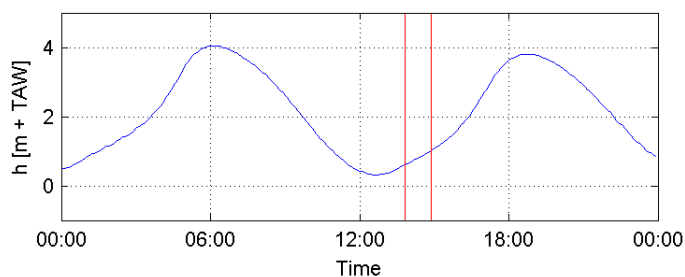
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 14-Feb-2008



06:00:  $h = 4.05 \text{ m} + \text{TAW}$

18:40:  $h = 3.81 \text{ m} + \text{TAW}$

12:30:  $h = 0.31 \text{ m} + \text{TAW}$

Date / Time [MET] :

14-Feb-2008

13:48 - 14:53

Time after HW [HH:MM]

-4:18

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

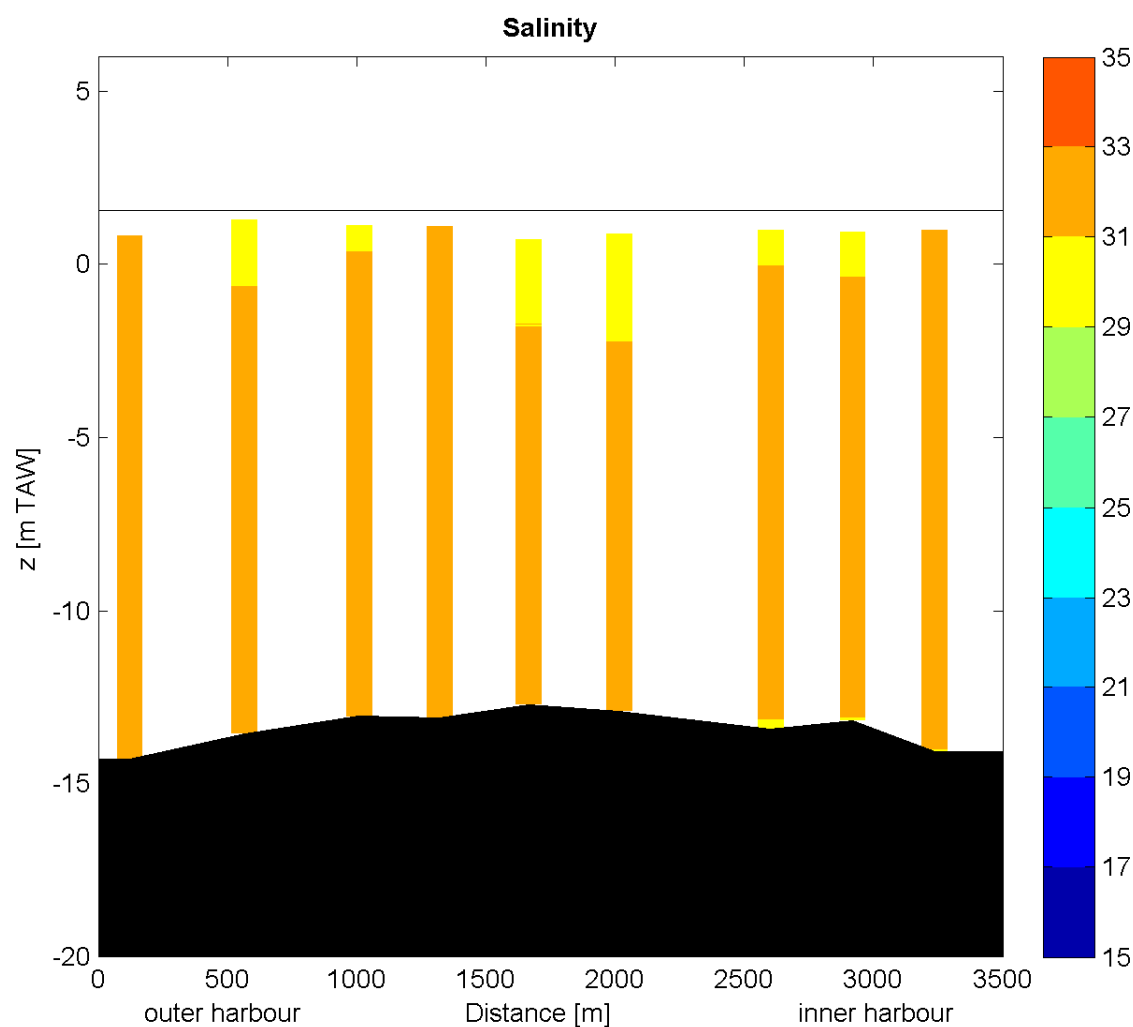
CTD Diver

Sourcefile:

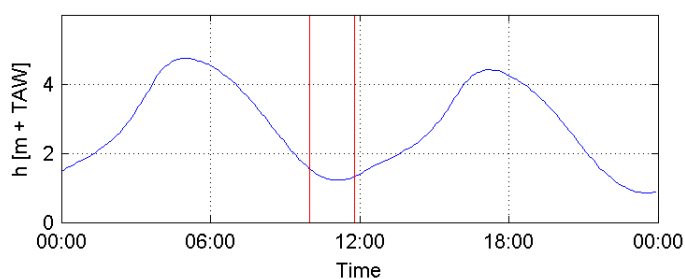
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 27-Feb-2008



Slack water:

04:50: h = 4.74 m+TAW

17:10: h = 4.43 m+TAW

10:55: h = 1.22 m+TAW

Date / Time [MET] :

27-Feb-2008

09:58 - 11:47

Time after HW [HH:MM]

6:03

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

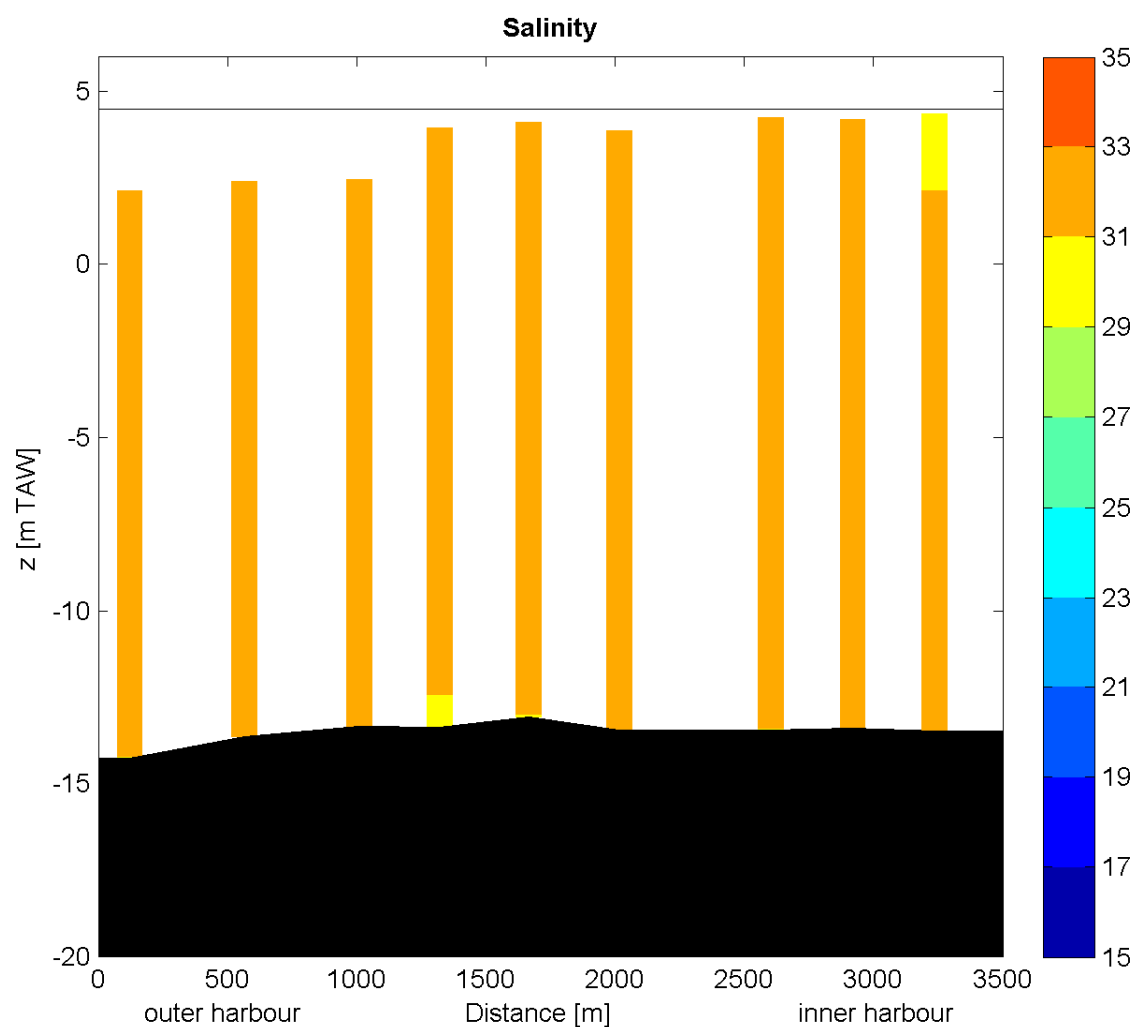
CTD Diver

Sourcefile:

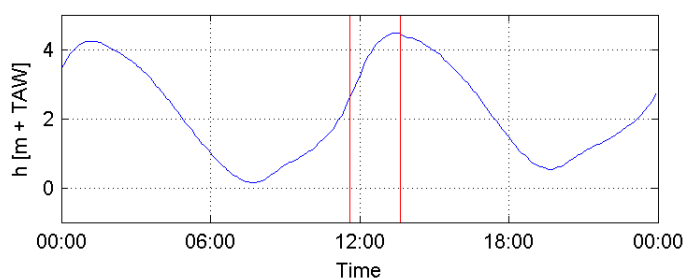
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 07-Mar-2008



Slack water: 01:05:  $h = 4.24$  m+TAW  
 13:25:  $h = 4.47$  m+TAW  
 07:35:  $h = 0.15$  m+TAW

Date / Time [MET] :

07-Mar-2008

11:36 - 13:37

Time after HW [HH:MM]

-0:48

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

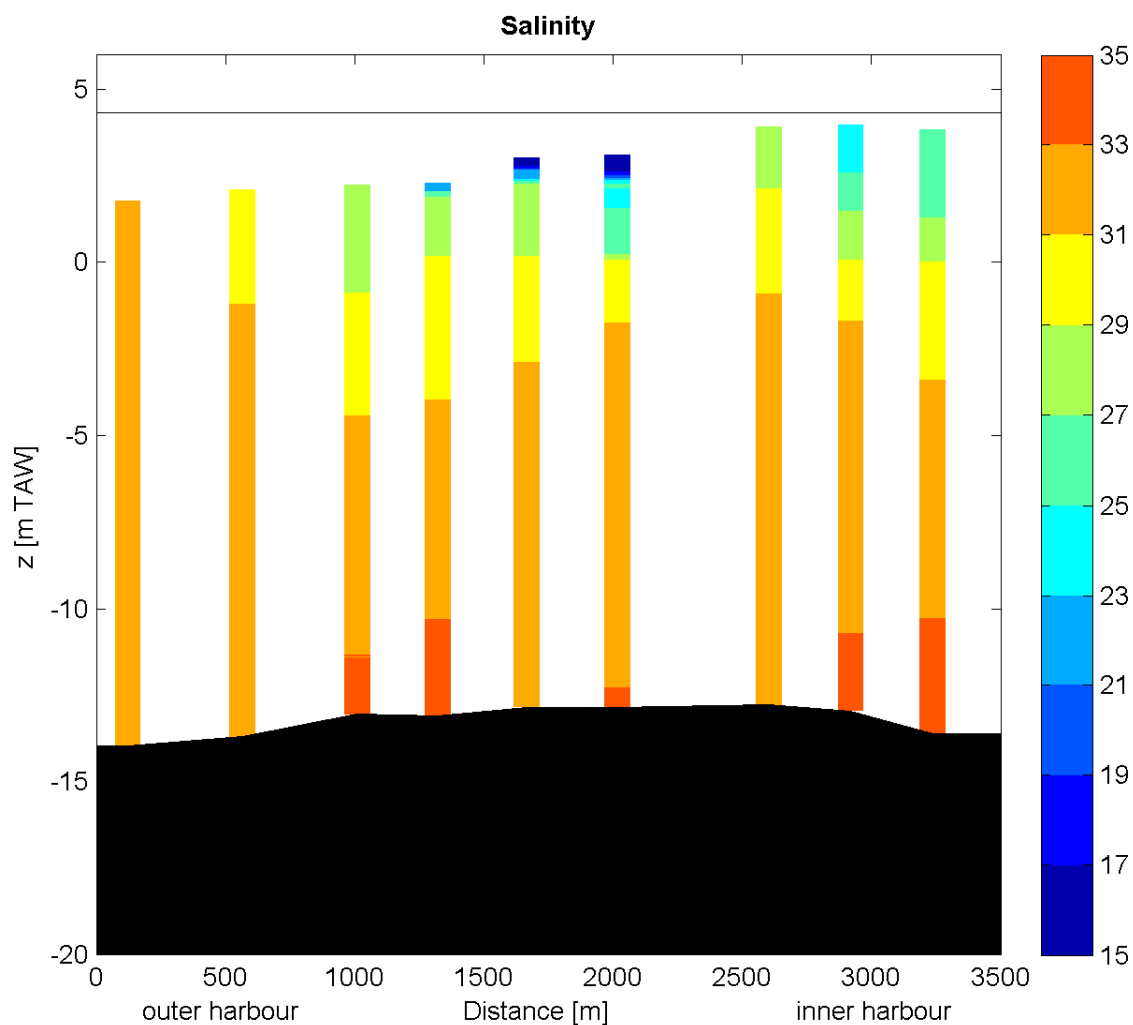
CTD Diver

Sourcefile:

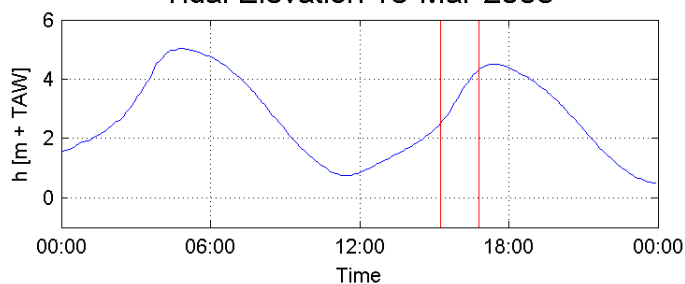
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 13-Mar-2008



Slack water: 04:45: h = 5.03 m+TAW  
17:25: h = 4.51 m+TAW  
11:20: h = 0.74 m+TAW

Date / Time [MET] :

13-Mar-2008

15:16 - 16:48

Time after HW [HH:MM]

-1:22

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

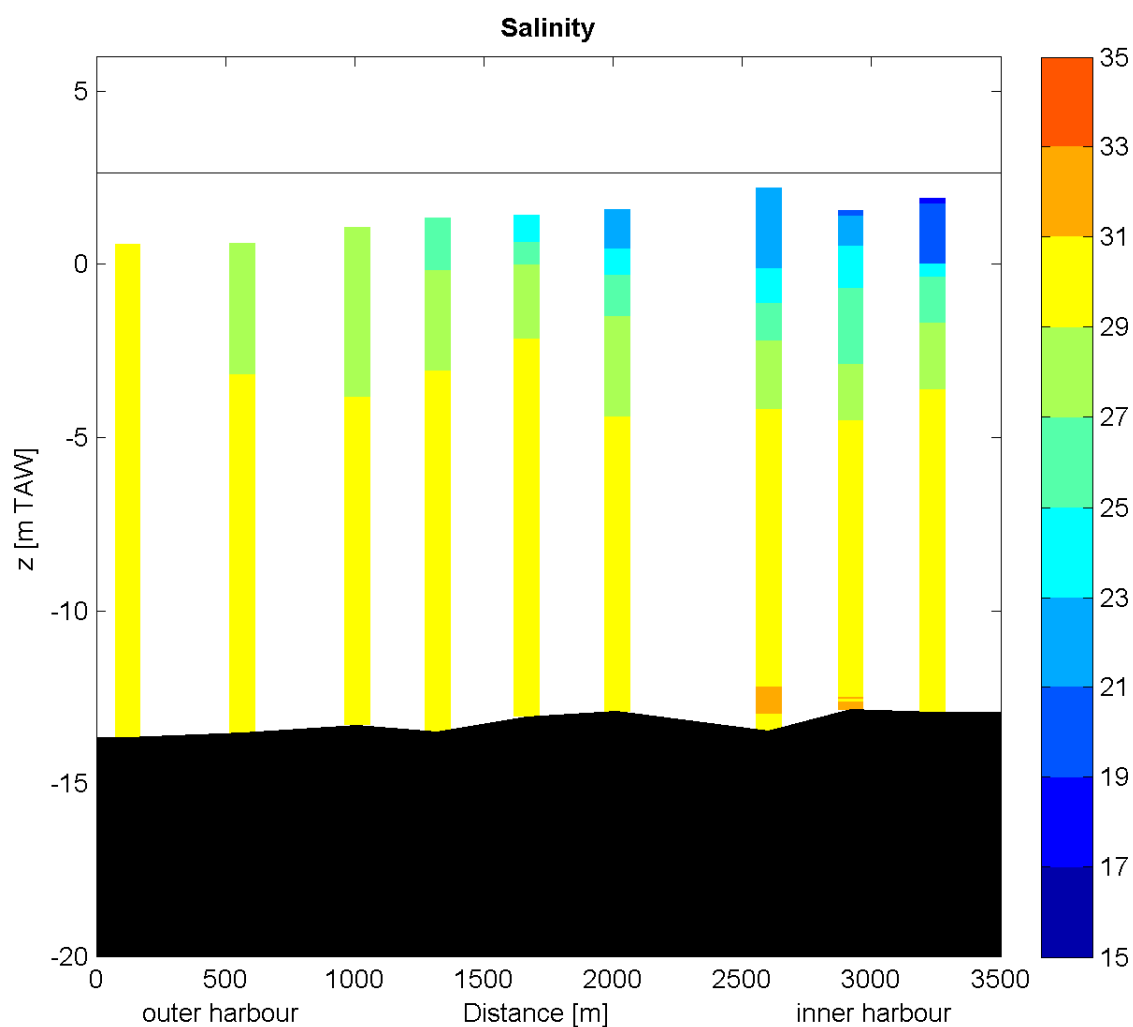
CTD Diver

Sourcefile:

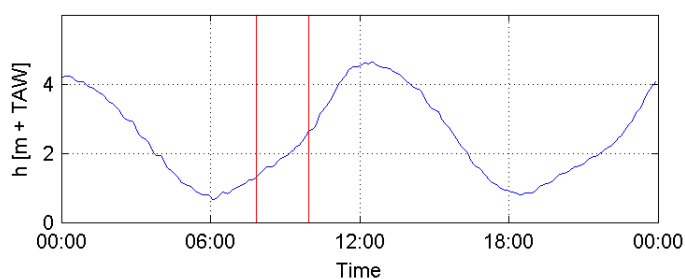
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 19-Mar-2008



Slack water: 23:40:  $h = \text{NaN m} + \text{TAW}$   
 12:30:  $h = 4.63 \text{ m} + \text{TAW}$   
 06:05:  $h = 0.66 \text{ m} + \text{TAW}$

Date / Time [MET] :

19-Mar-2008

07:49 - 09:57

Time after HW [HH:MM]

-3:36

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

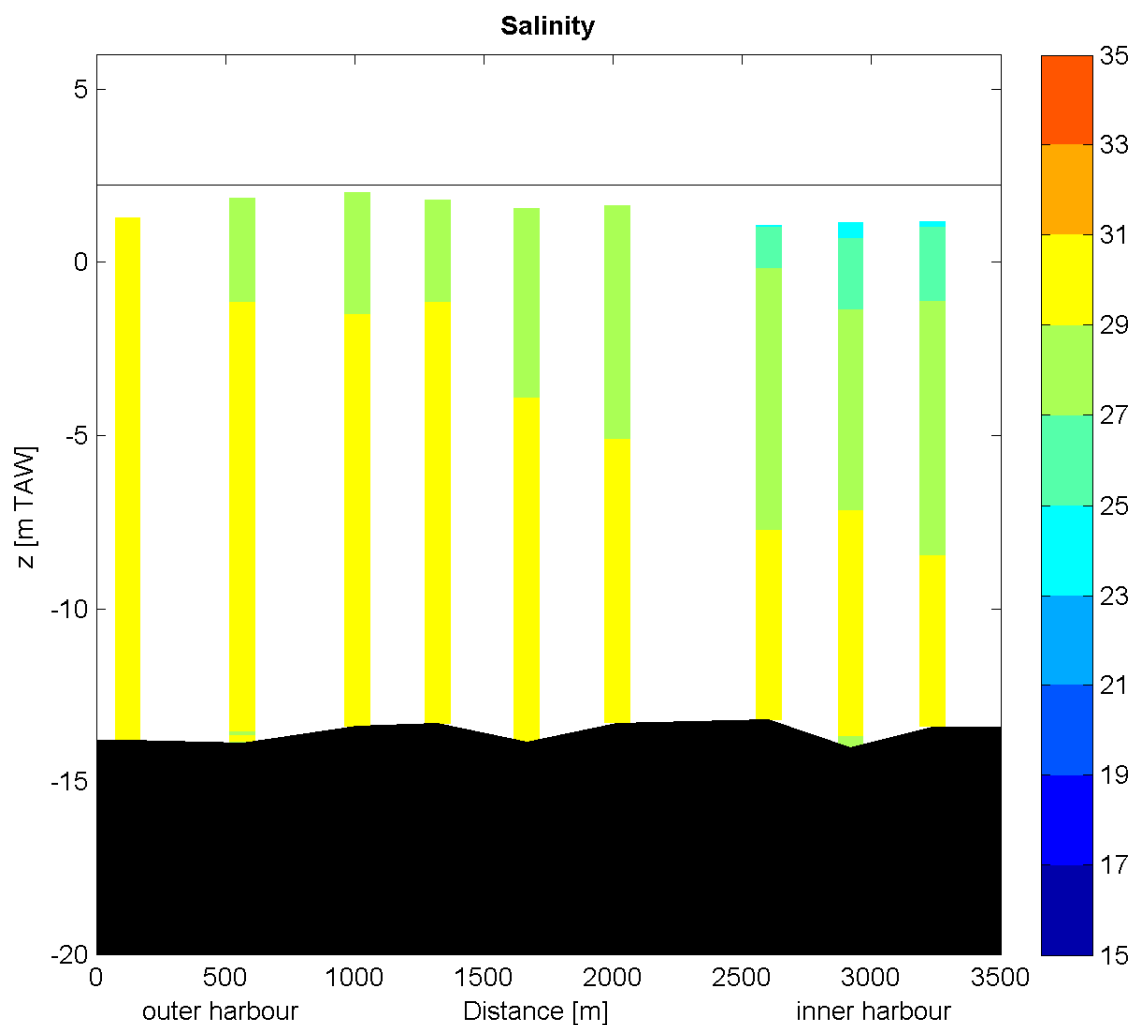
CTD Diver

Sourcefile:

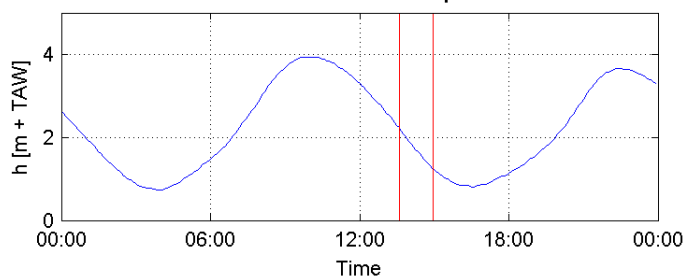
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 15-Apr-2008



Slack water:

04:00: h = 0.73 m+TAW

16:30: h = 0.81 m+TAW

09:50: h = 3.94 m+TAW

Date / Time [MET] :

15-Apr-2008

13:35 - 14:57

Time after HW [HH:MM]

-2:13

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

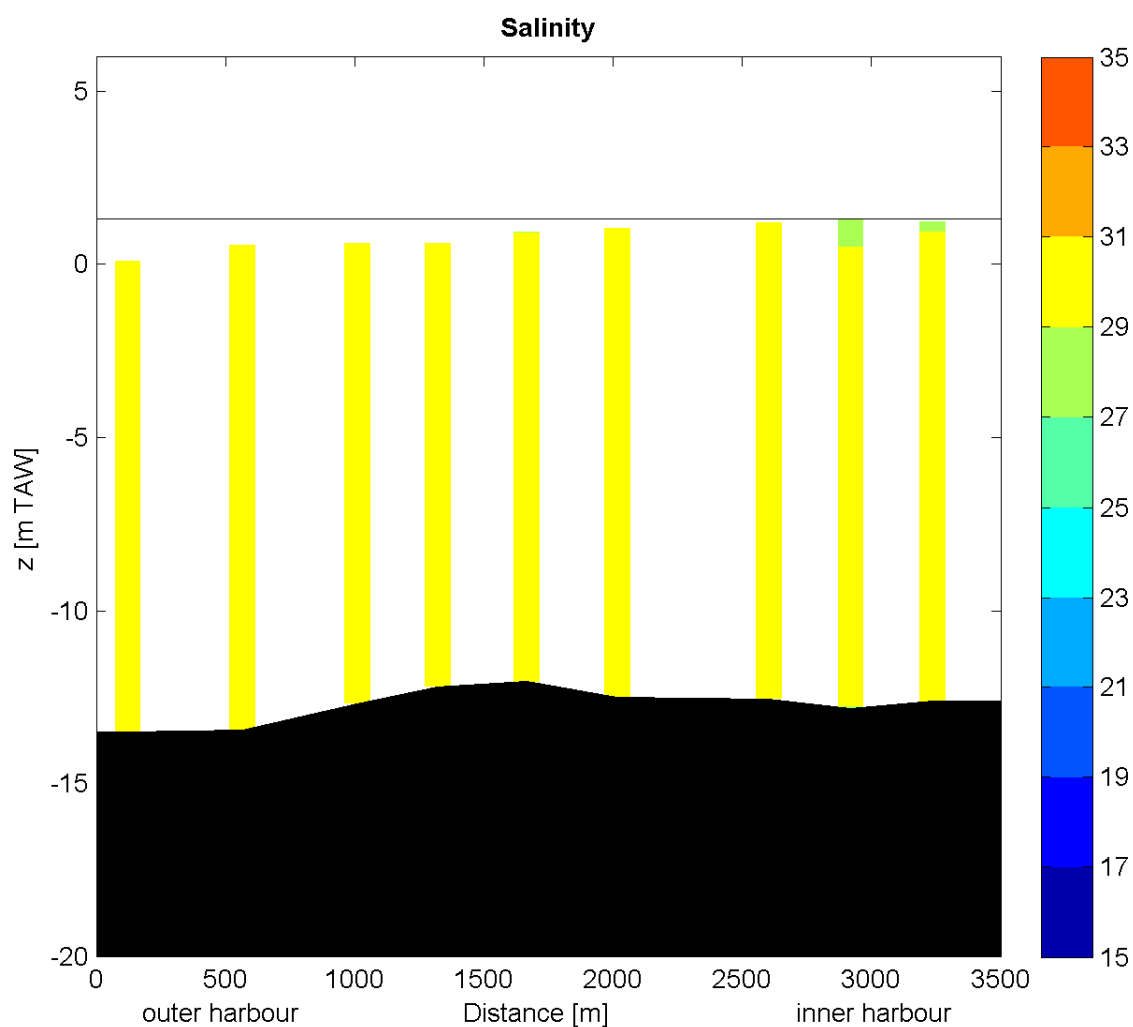
CTD Diver

Sourcefile:

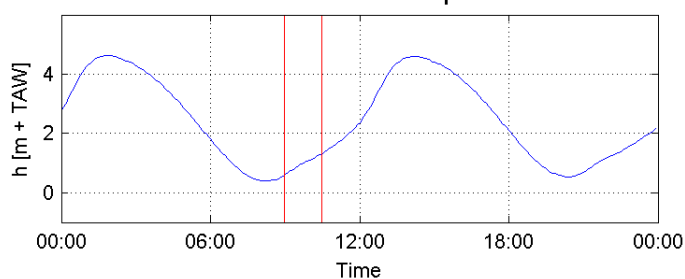
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 21-Apr-2008



Slack water:      01:50: h = 4.63 m+TAW  
                          14:15: h = 4.61 m+TAW  
                          08:05: h = 0.39 m+TAW

Date / Time [MET] :

21-Apr-2008

08:58 - 10:27

Time after HW [HH:MM]

-4:31

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

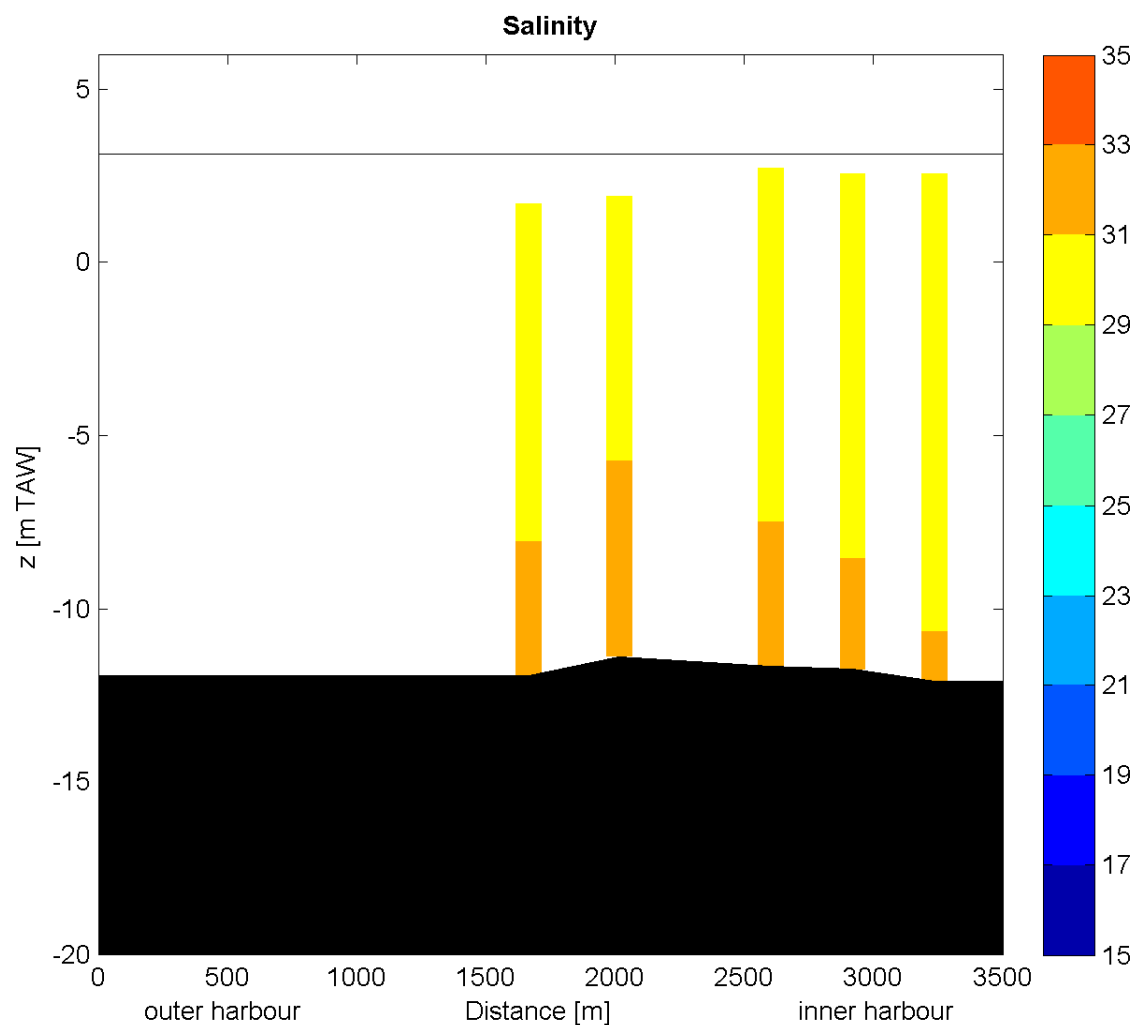
CTD Diver

Sourcefile:

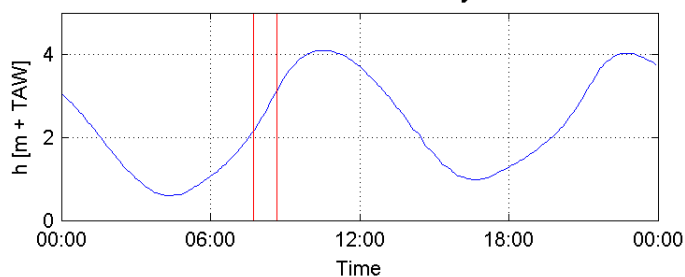
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 15-May-2008



Slack water:

21:40: h = NaN m+TAW

10:20: h = 4.09 m+TAW

04:15: h = 0.59 m+TAW

Date / Time [MET] :

15-May-2008

07:43 - 08:39

Time after HW [HH:MM]

-2:08

Data Processed by:



In association with :



\\RA\11292\10.123\BQU



# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

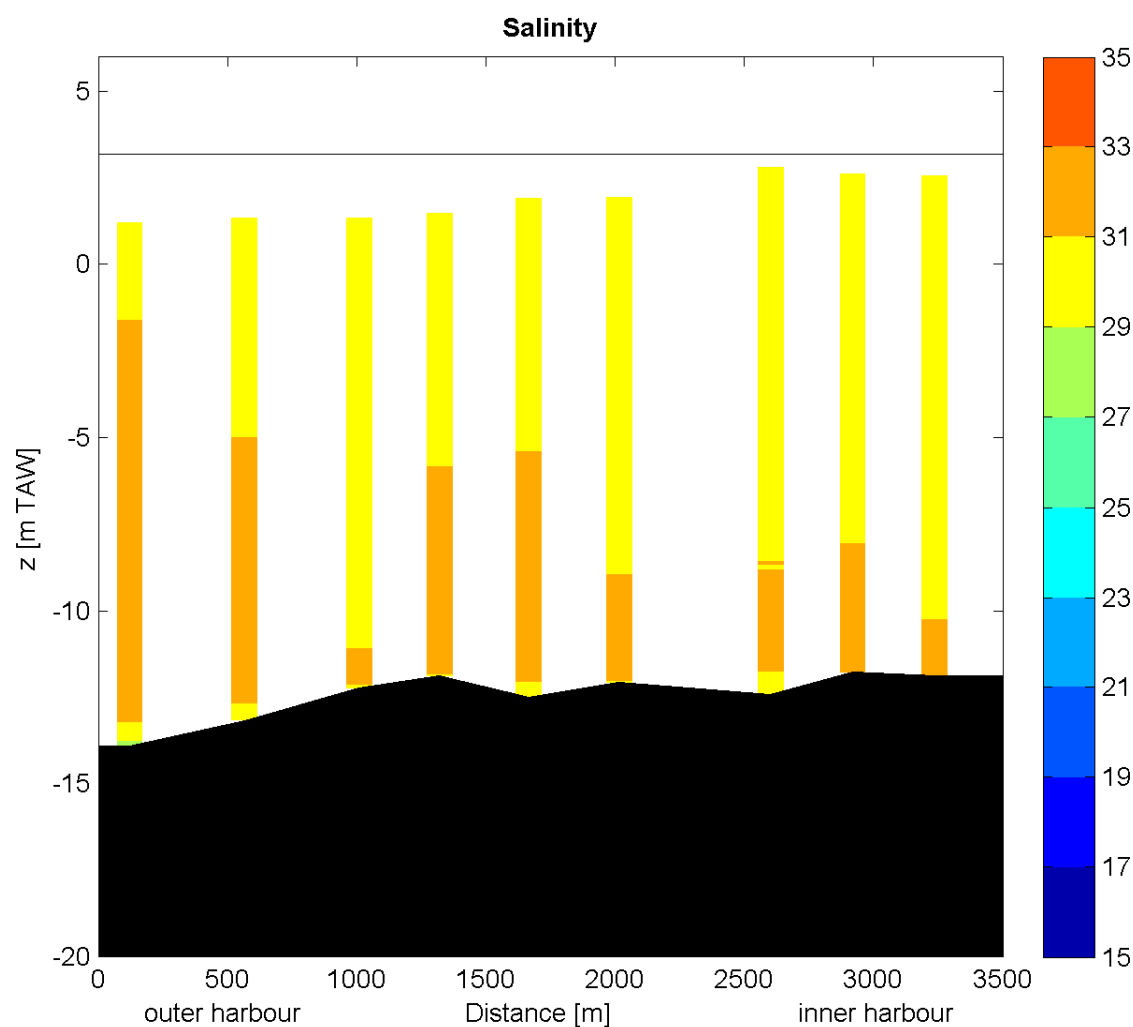
CTD Diver

Sourcefile:

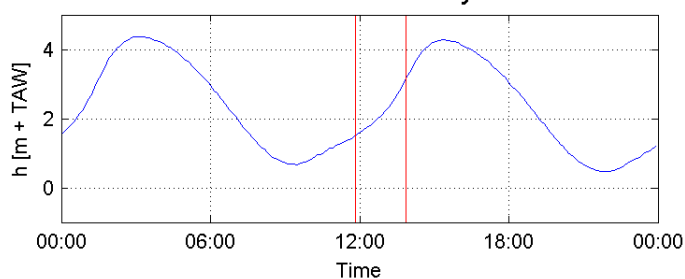
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 23-May-2008



Slack water:            03:00: h = 4.37 m+TAW  
                              15:20: h = 4.29 m+TAW  
                              09:25: h = 0.66 m+TAW

Date / Time [MET] :

23-May-2008

11:49 - 13:51

Time after HW [HH:MM]

-2:29

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

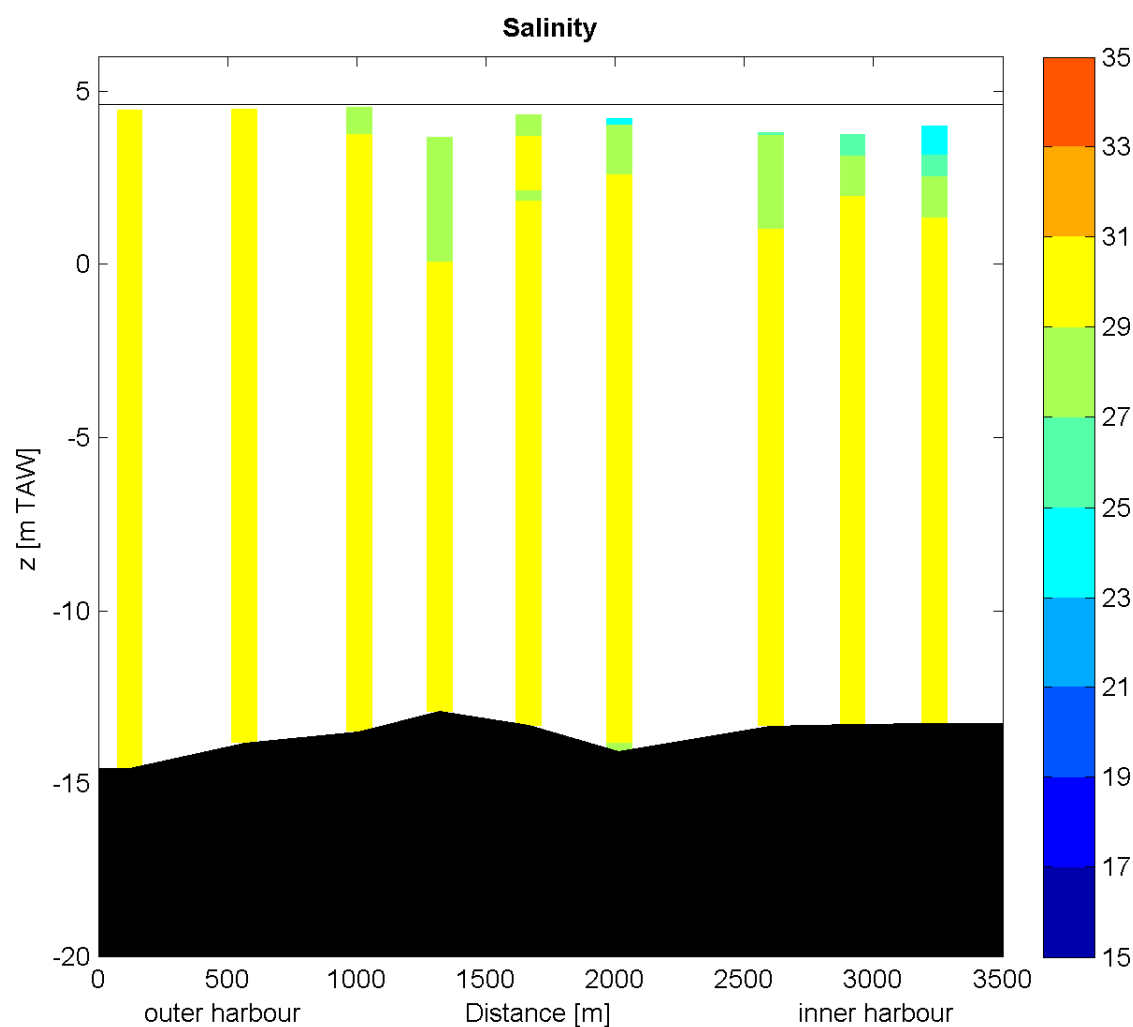
CTD Diver

Sourcefile:

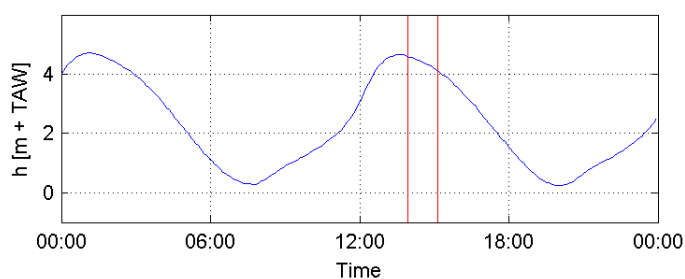
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 04-Jun-2008



Date / Time [MET] :

04-Jun-2008

13:56 - 15:08

Time after HW [HH:MM]

0:52

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

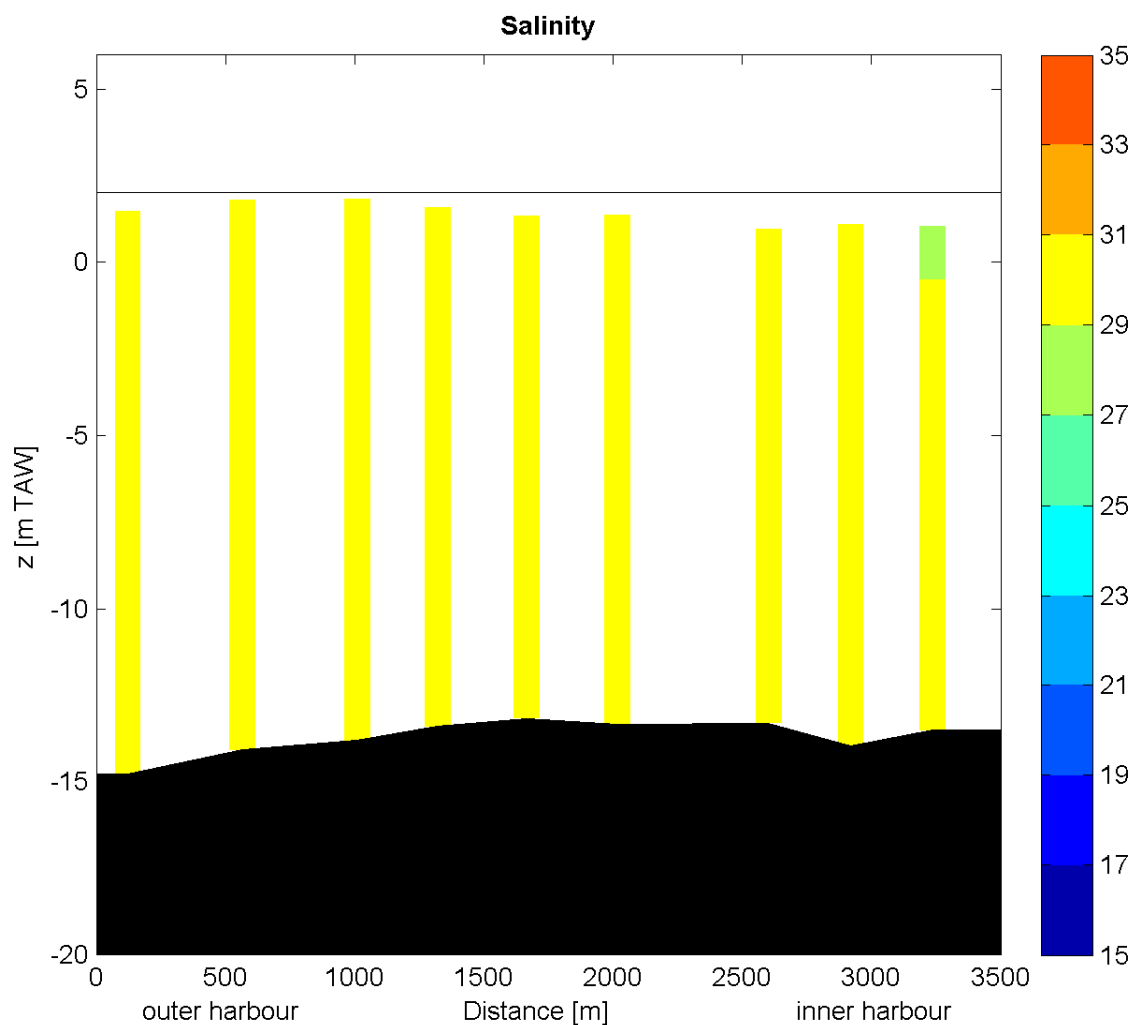
CTD Diver

Sourcefile:

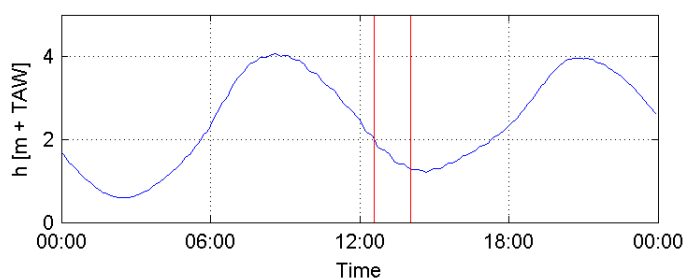
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 12-Jun-2008



Slack water: 02:15:  $h = 0.59$  m+TAW  
 14:40:  $h = 1.21$  m+TAW  
 08:35:  $h = 4.06$  m+TAW

Date / Time [MET] :

12-Jun-2008

12:34 - 14:02

Time after HW [HH:MM]

-1:21

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

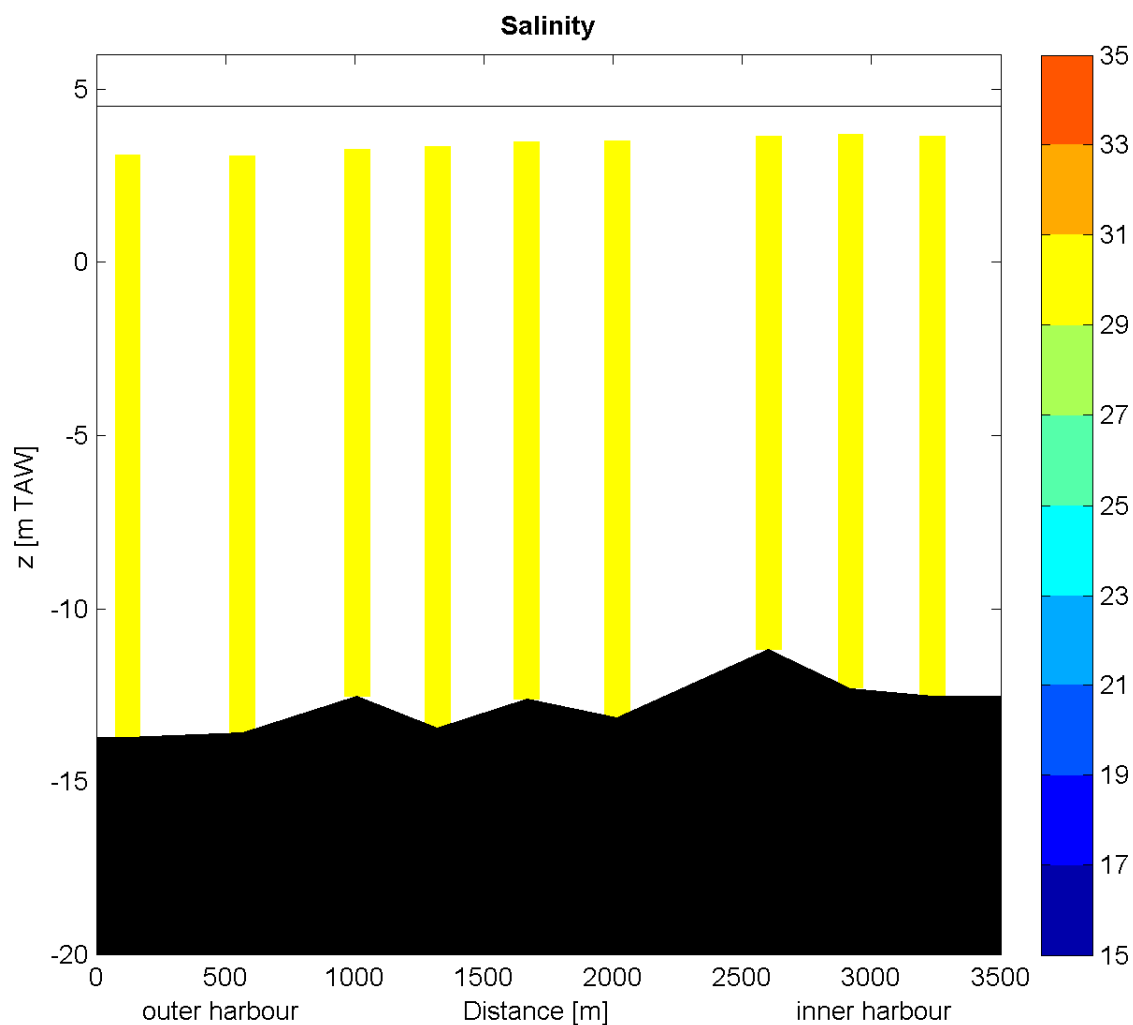
CTD Diver

Sourcefile:

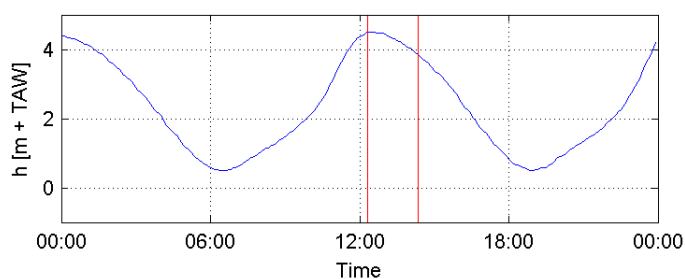
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 02-Jul-2008



Slack water:

00:05: h = 4.38 m+TAW

12:25: h = 4.5 m+TAW

06:35: h = 0.49 m+TAW

Date / Time [MET] :

02-Jul-2008

12:19 - 14:21

Time after HW [HH:MM]

0:55

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

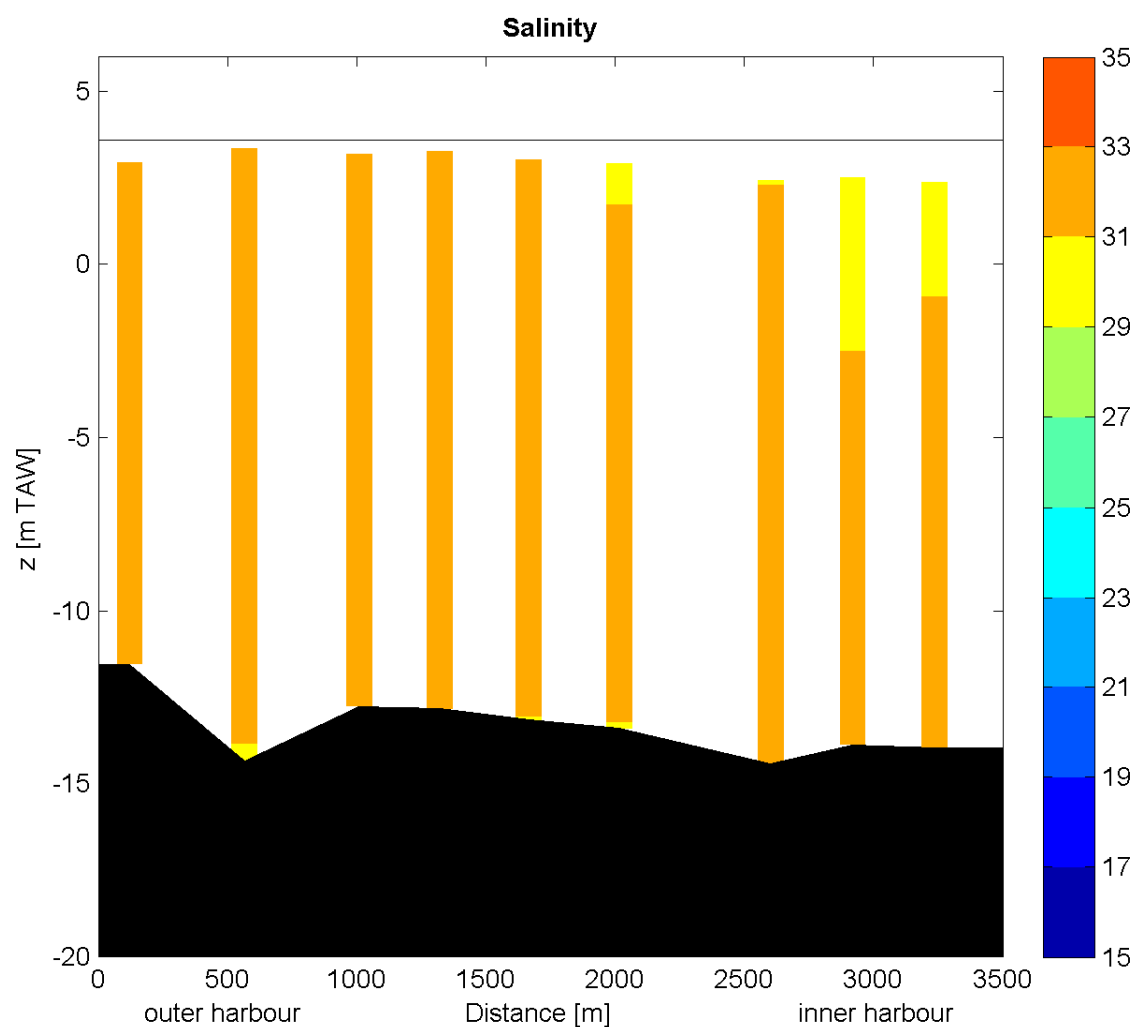
CTD Diver

Sourcefile:

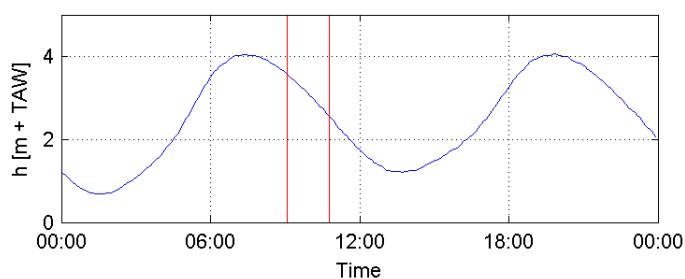
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 11-Jul-2008



Slack water:

01:25: h = 0.68 m+TAW

13:40: h = 1.21 m+TAW

07:20: h = 4.04 m+TAW

Date / Time [MET] :

11-Jul-2008

09:04 - 10:47

Time after HW [HH:MM]

-3:44

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

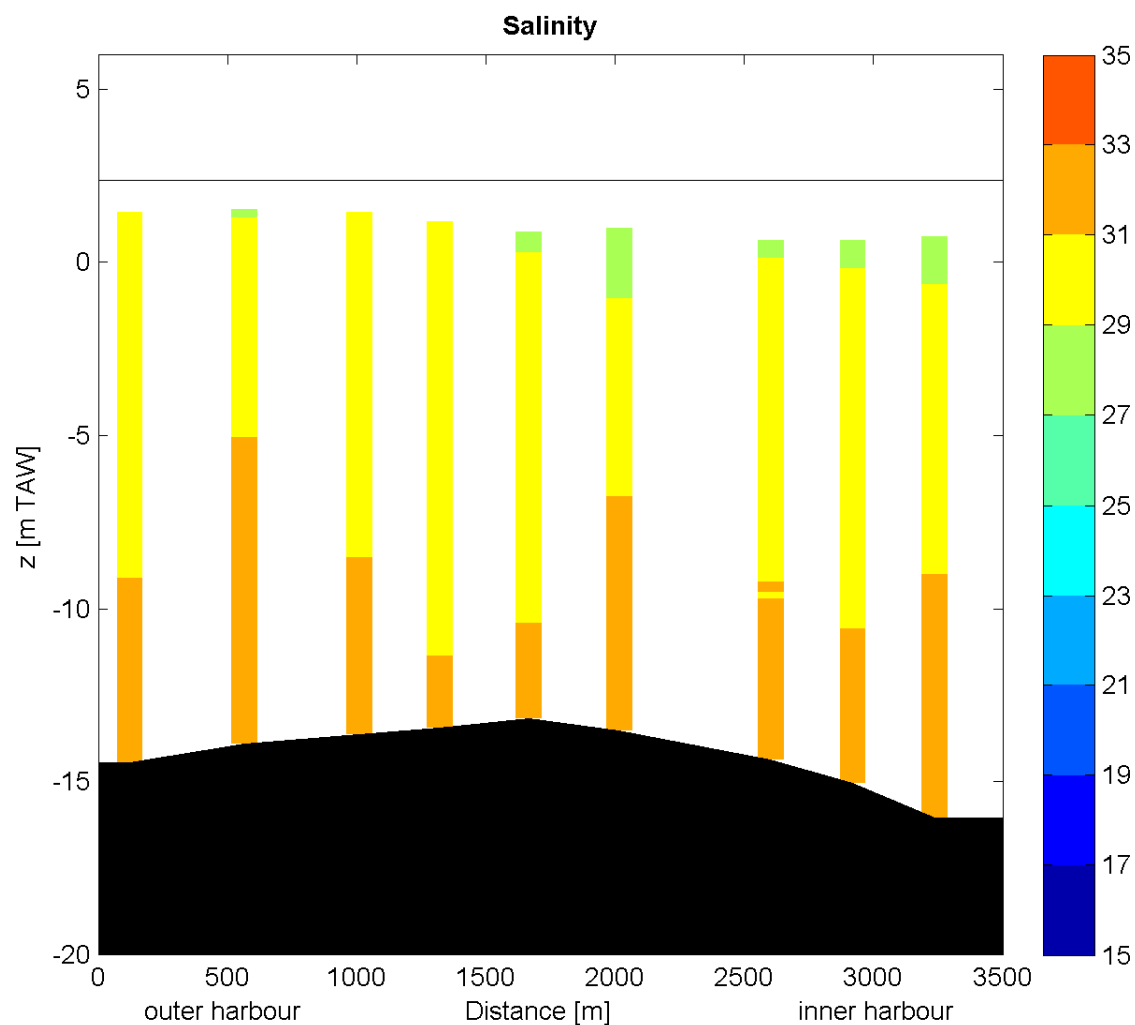
CTD Diver

Sourcefile:

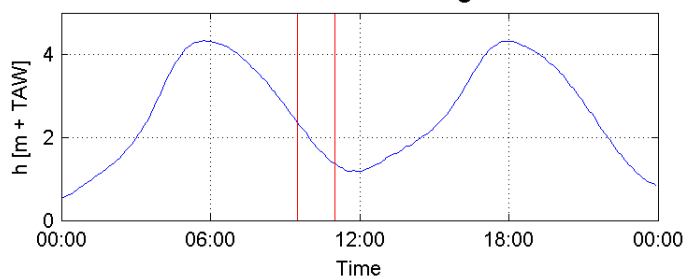
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 08-Aug-2008



Slack water:

05:45: h = 4.33 m+TAW

17:50: h = 4.32 m+TAW

11:30: h = 1.19 m+TAW

Date / Time [MET] :

08-Aug-2008

09:28 - 11:00

Time after HW [HH:MM]

4:29

Data Processed by:



In association with :



\\RA\11292\10.123\BQU

# Vertical salinity distribution in the port of Zeebrugge

11292 - Zoutmetingen Zeebrugge

Equipment(s):

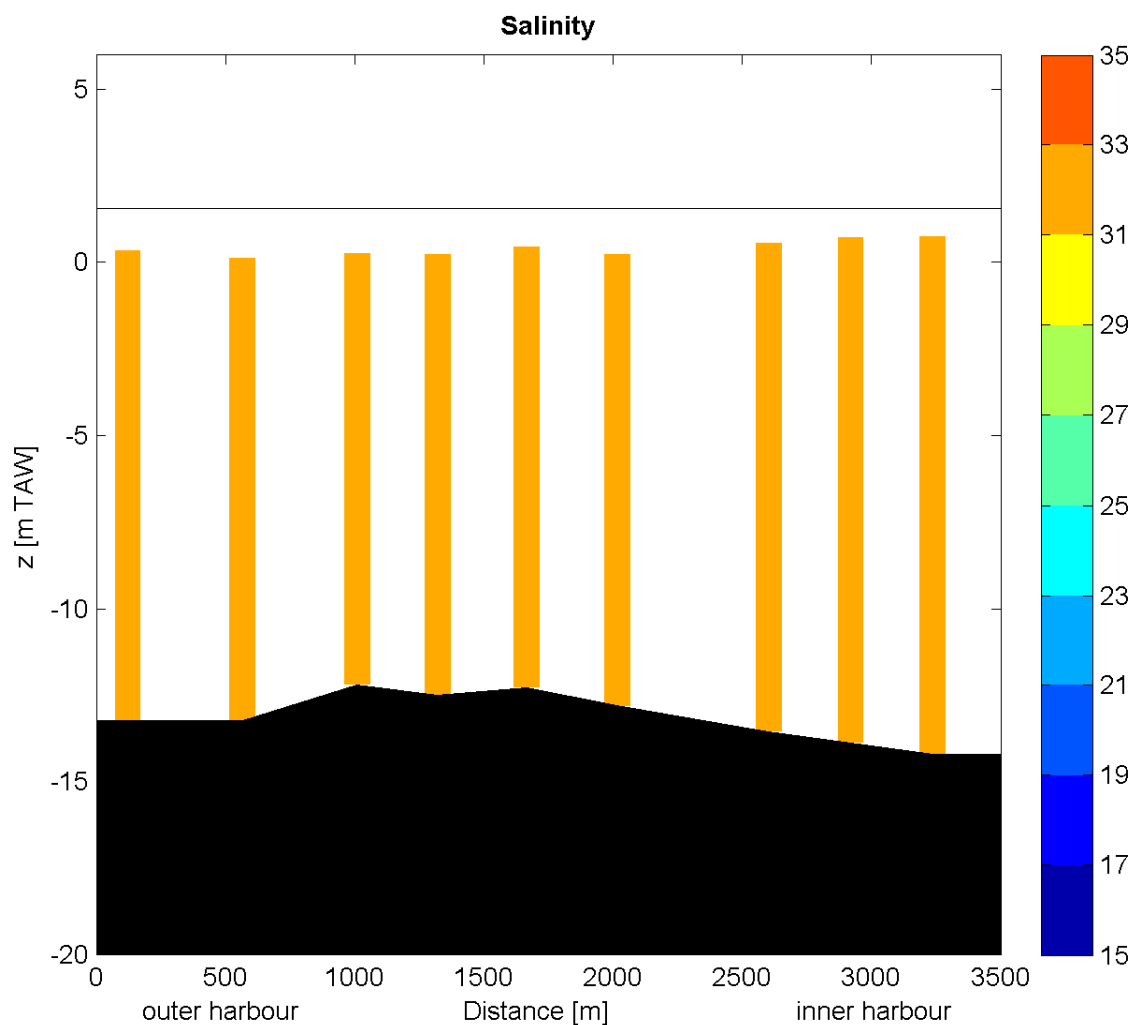
CTD Diver

Sourcefile:

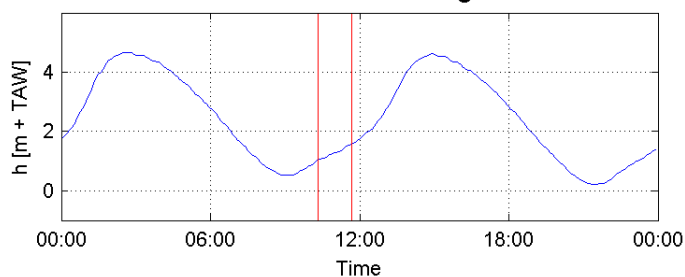
\*.sil

Location:

port of Zeebrugge



## Tidal Elevation 19-Aug-2008



Slack water:

02:40: h = 4.67 m+TAW

14:55: h = 4.63 m+TAW

08:55: h = 0.53 m+TAW

Date / Time [MET] :

19-Aug-2008

10:19 - 11:39

Time after HW [HH:MM]

-3:55

Data Processed by:



In association with :



\\RA\11292\10.123\BQU



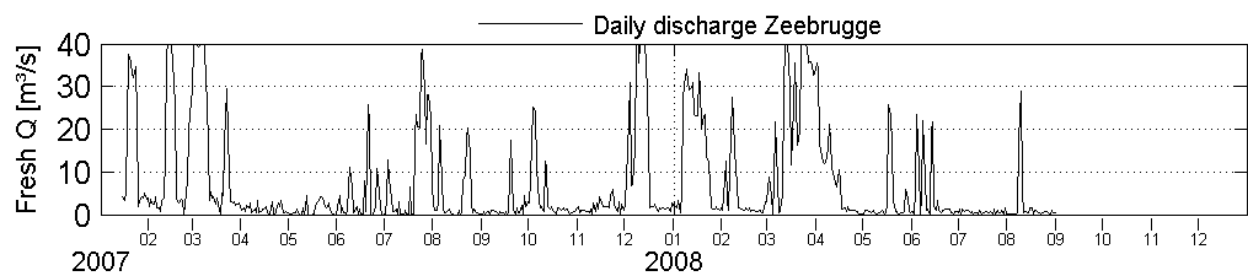
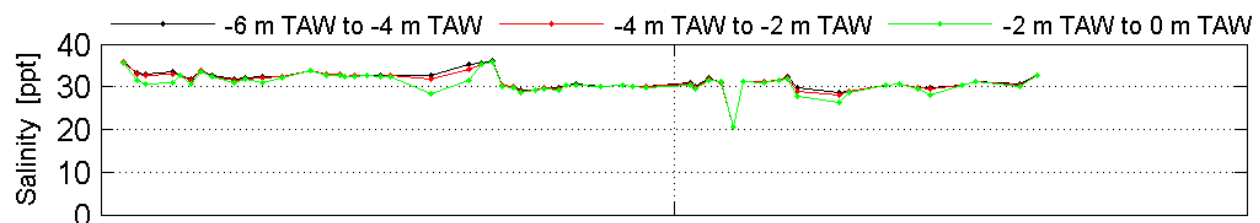
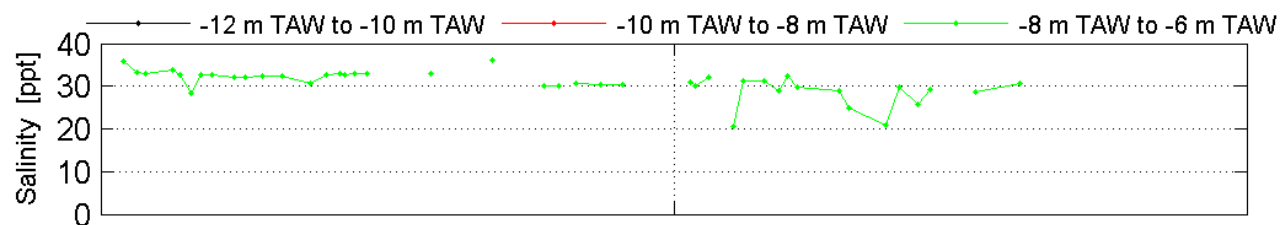
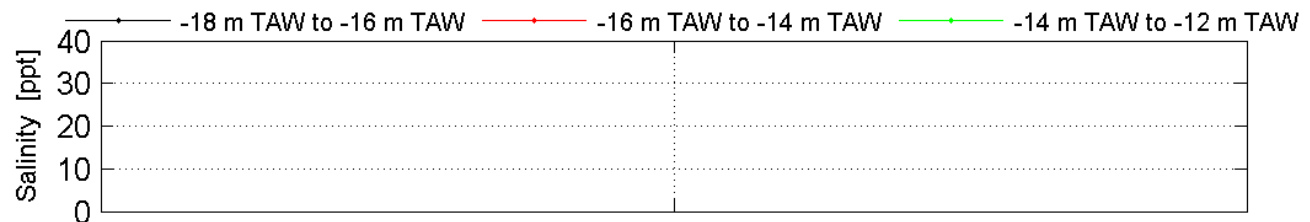
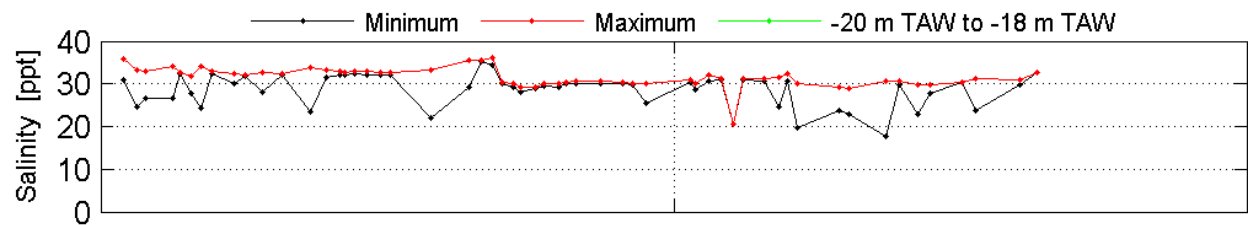


## **Annex H Timeseries per location of the salinity distribution throughout the watercolumn**



# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 01

Processed by:



Location:

In Association with:

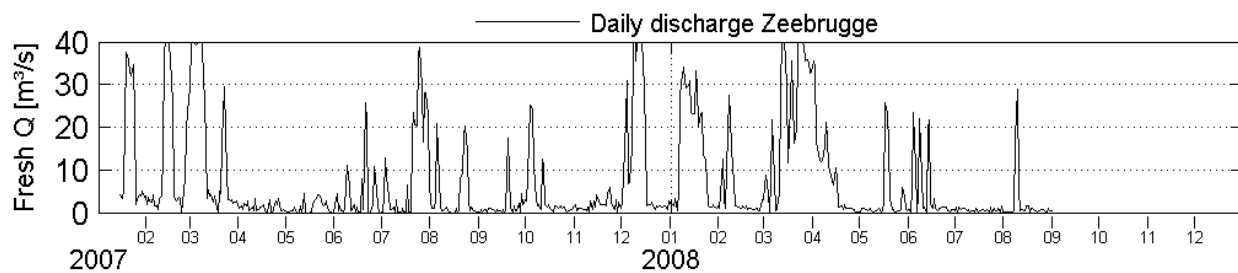
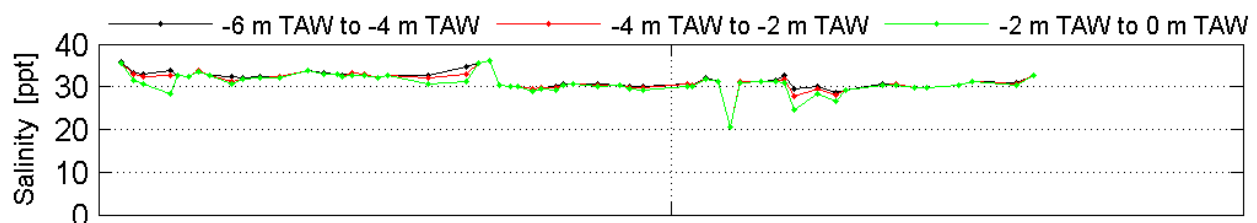
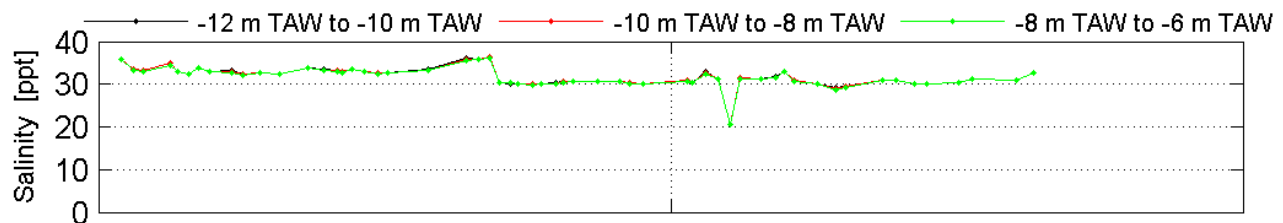
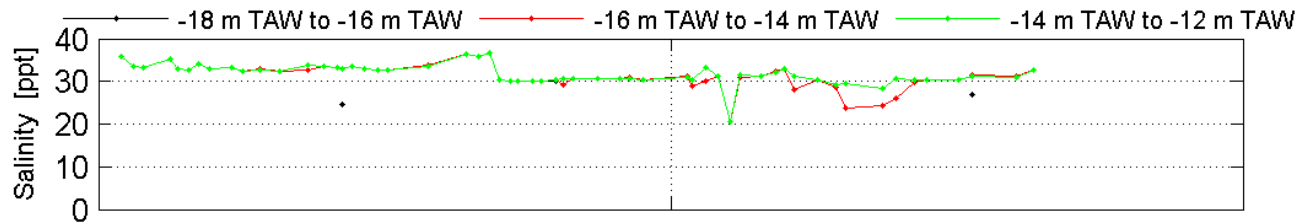
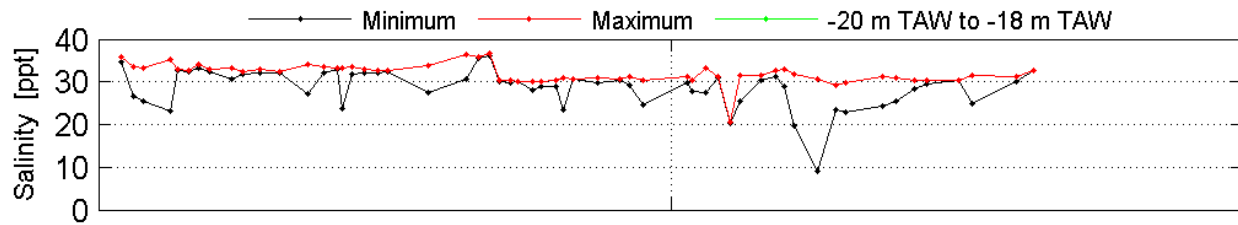


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 02

Processed by:



Location:

In Association with:

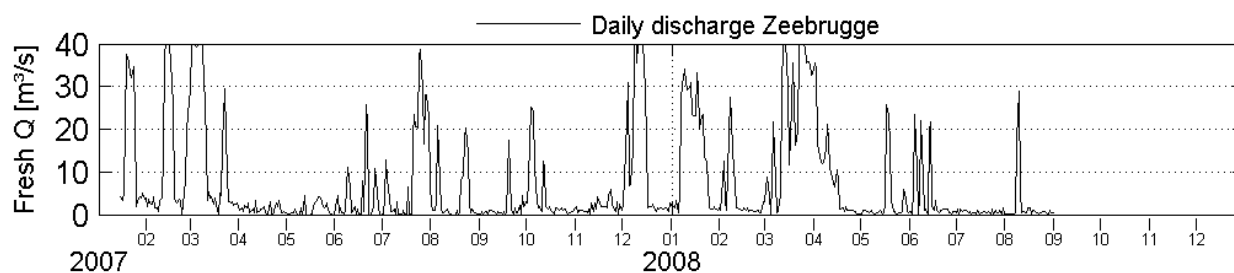
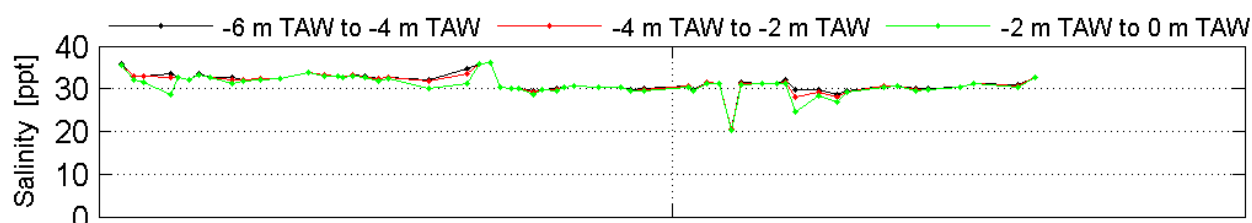
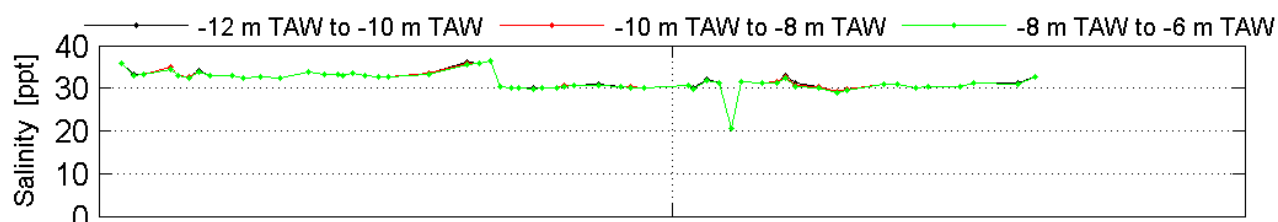
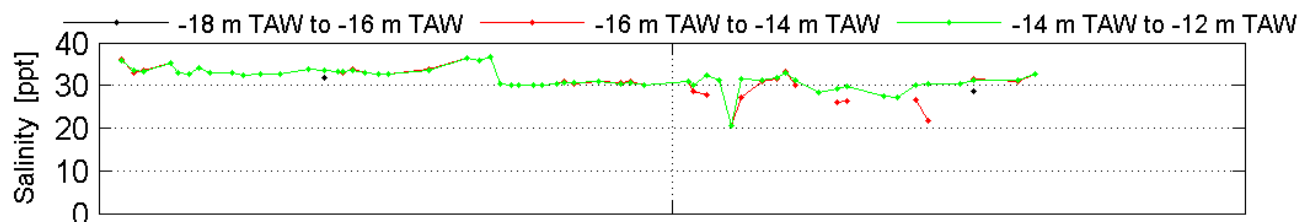
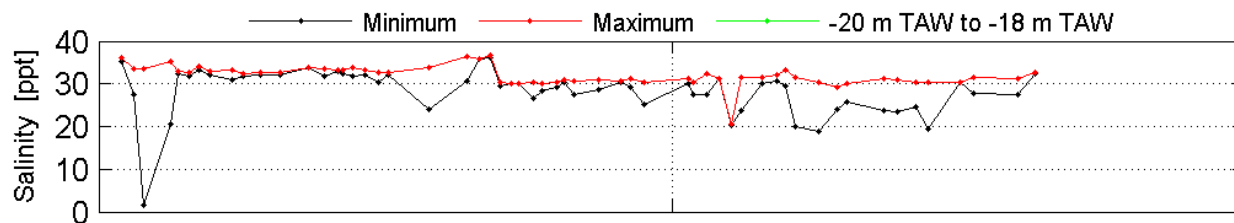


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 03

Processed by:



Location:

In Association with:

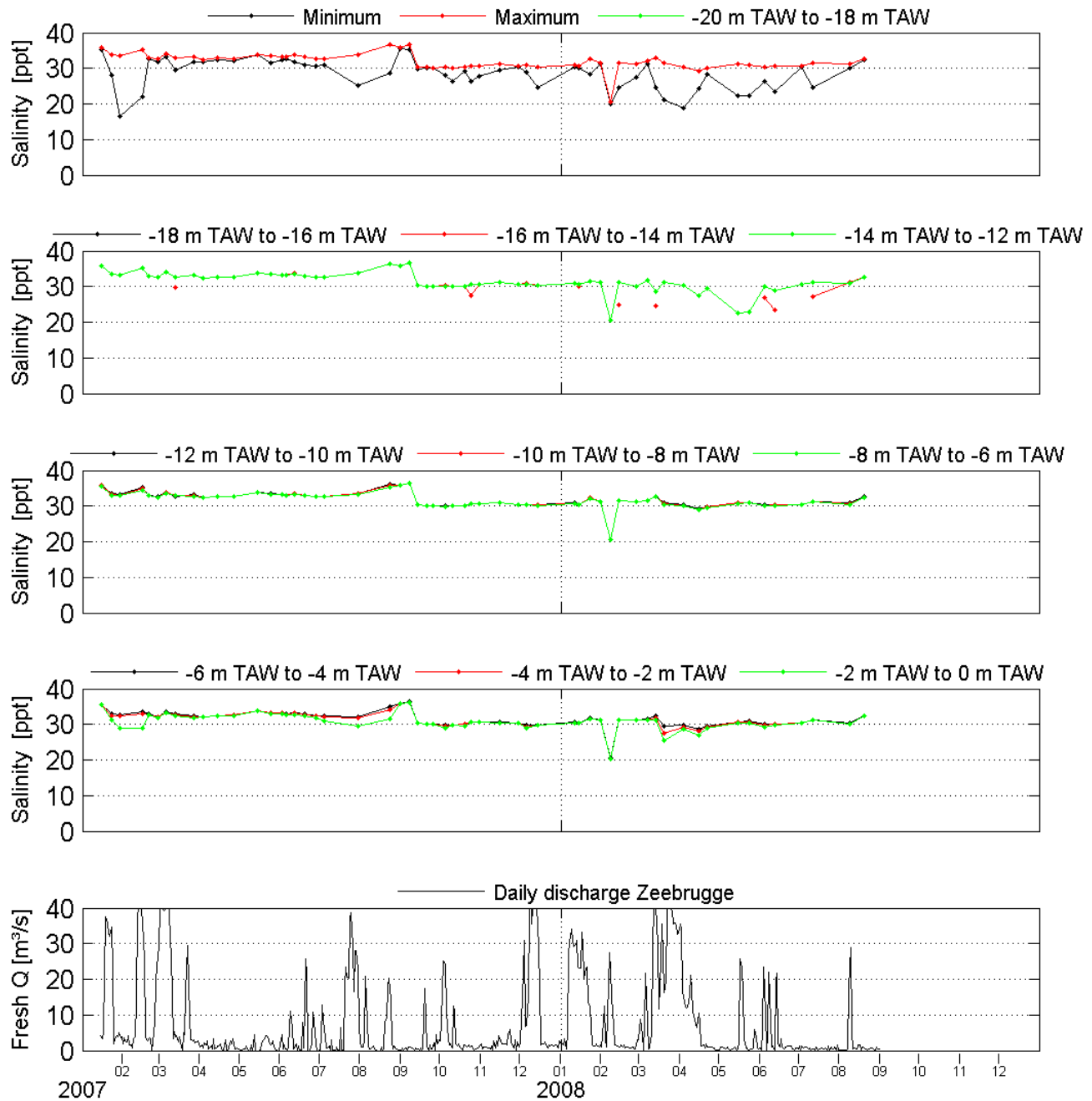


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 04

Processed by:



In Association with:



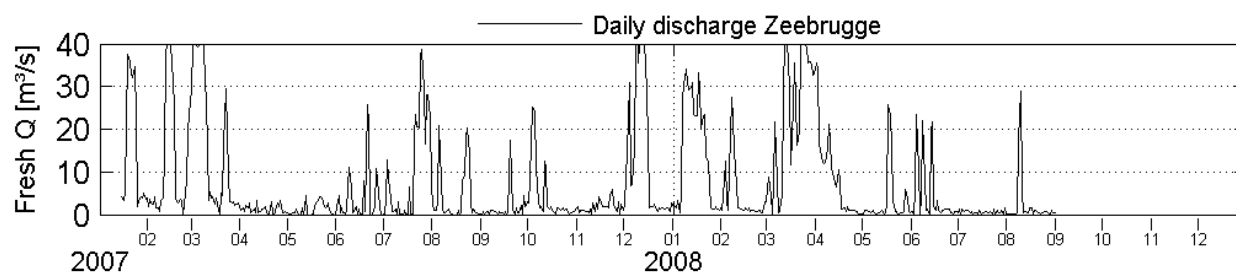
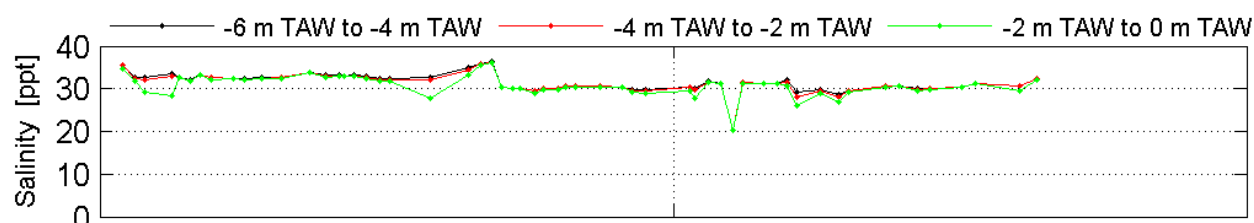
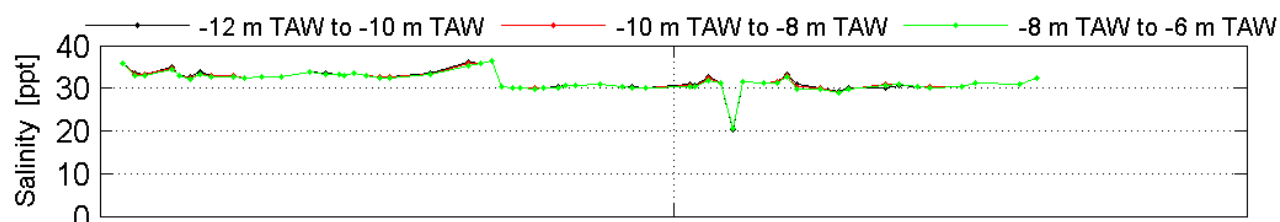
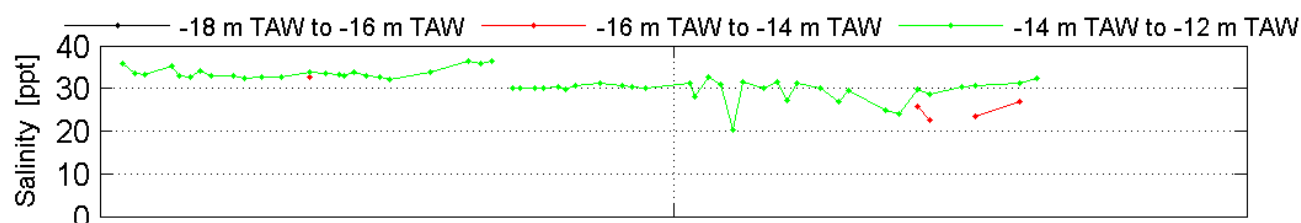
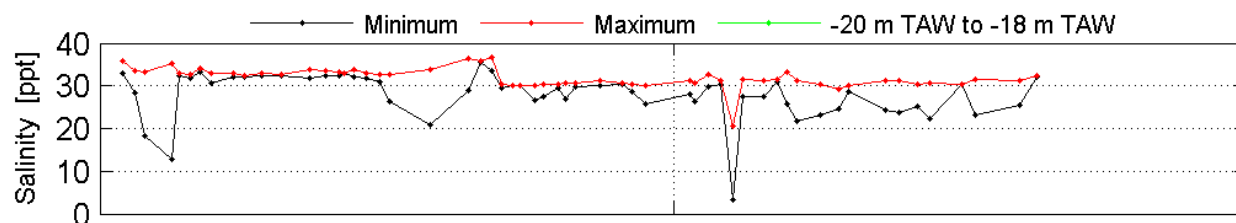
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 05

Processed by:



Location:

In Association with:

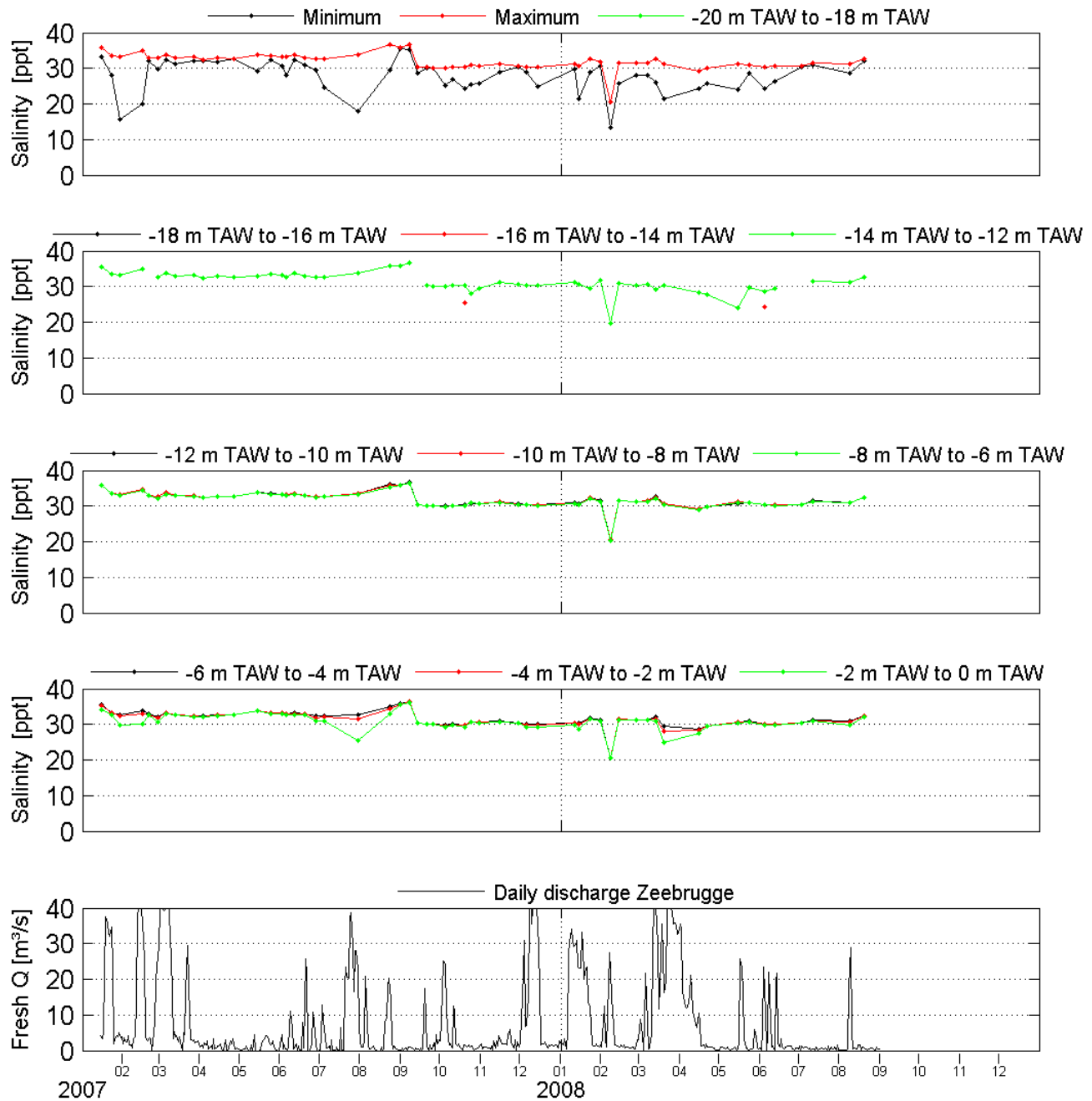


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 06

Processed by:



Location:

In Association with:



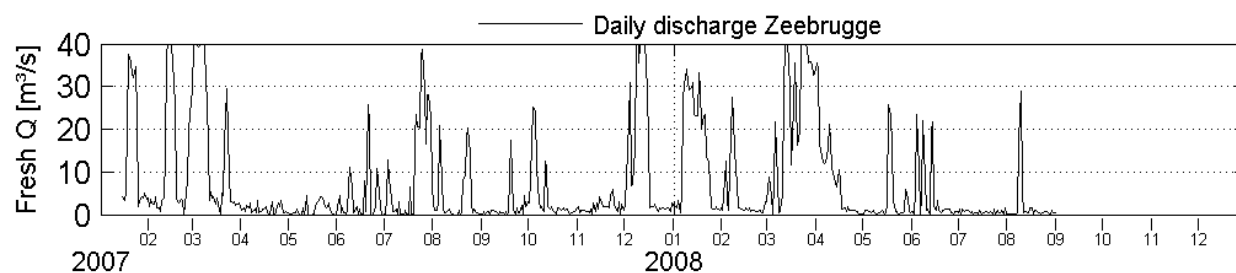
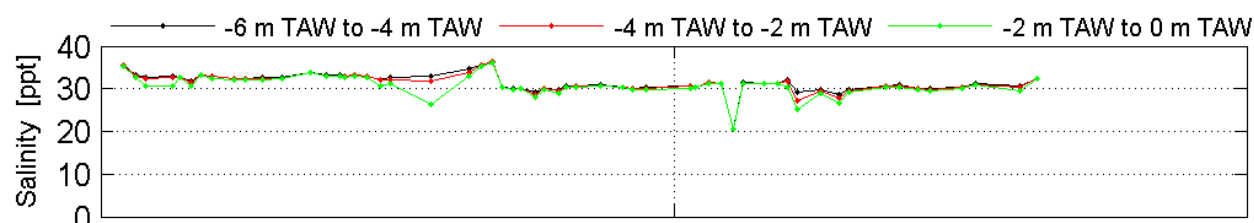
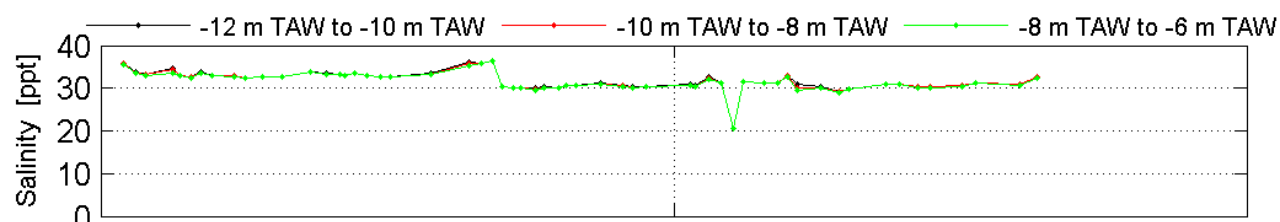
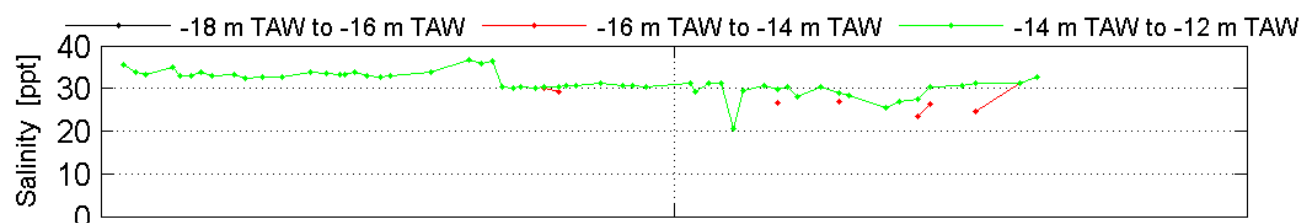
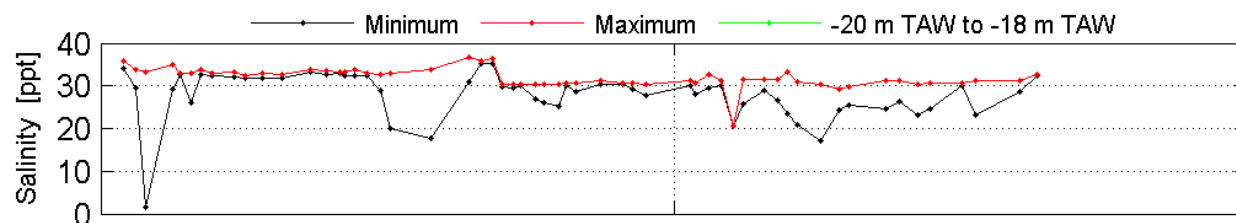
Port of Zeebrugge

I/RA/11292/10.123/BQU



# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 07

Processed by:



Location:

In Association with:

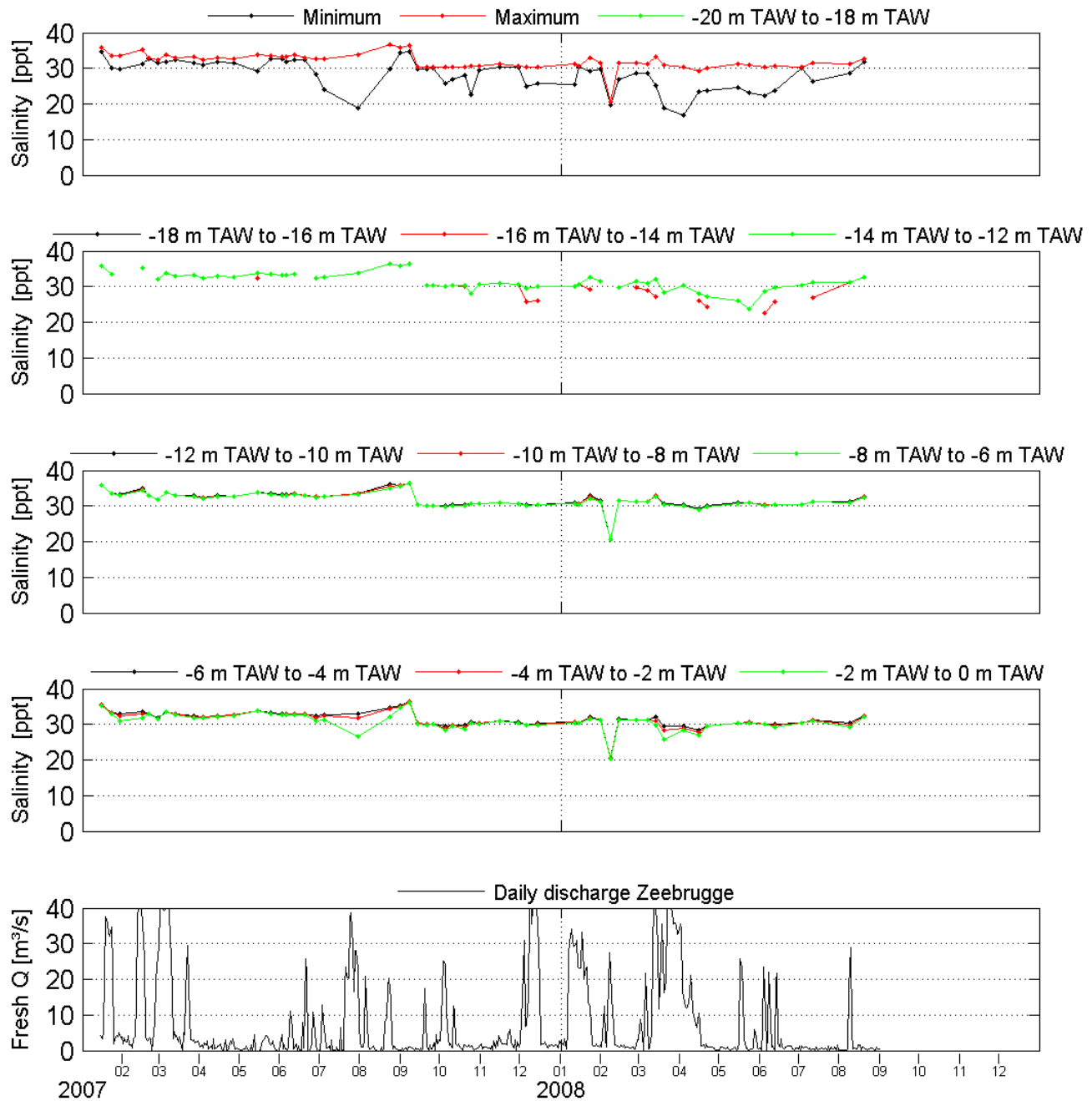


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 08

Processed by:



In Association with:



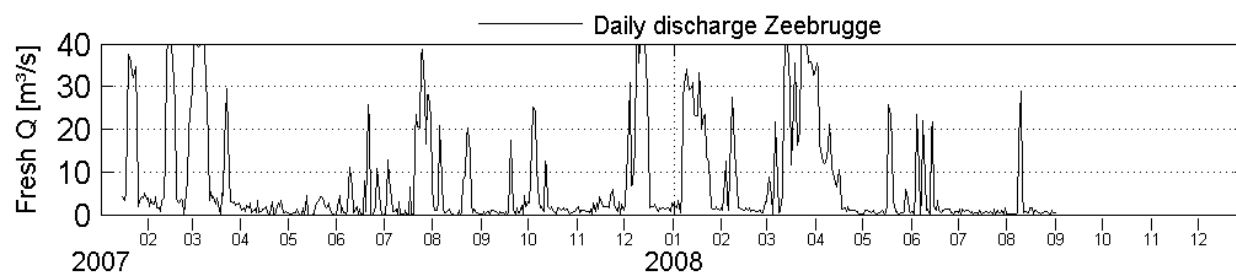
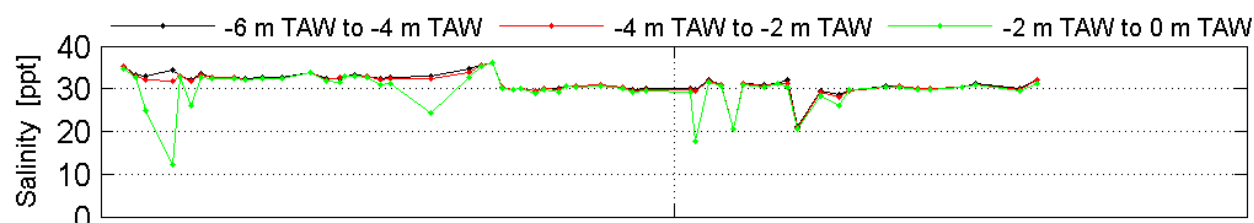
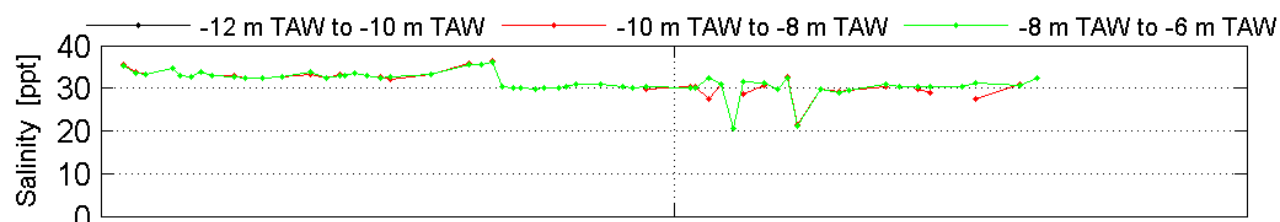
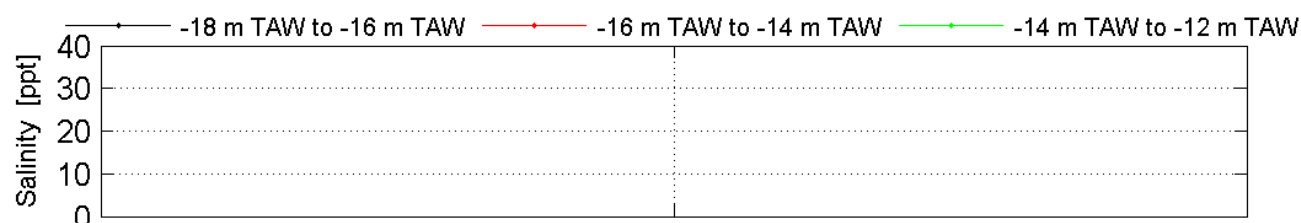
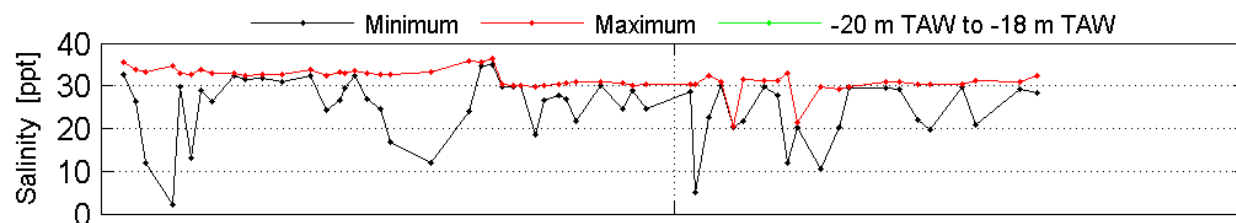
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 09

Processed by:



In Association with:



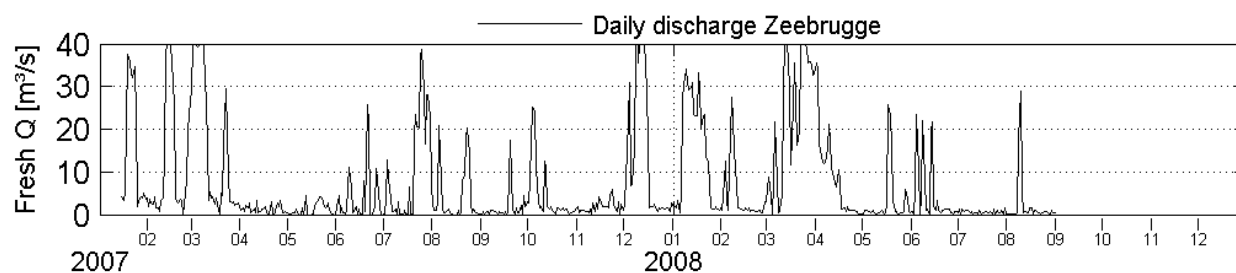
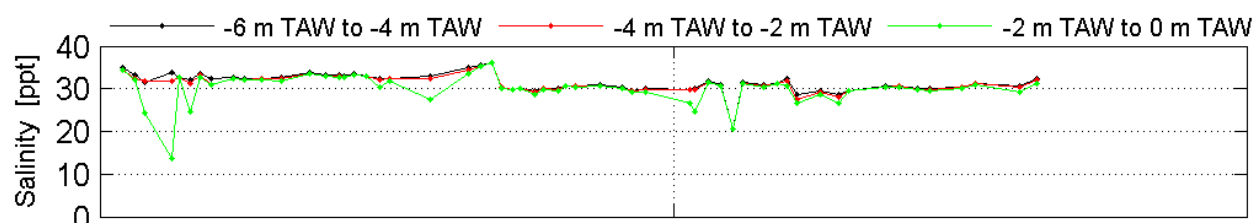
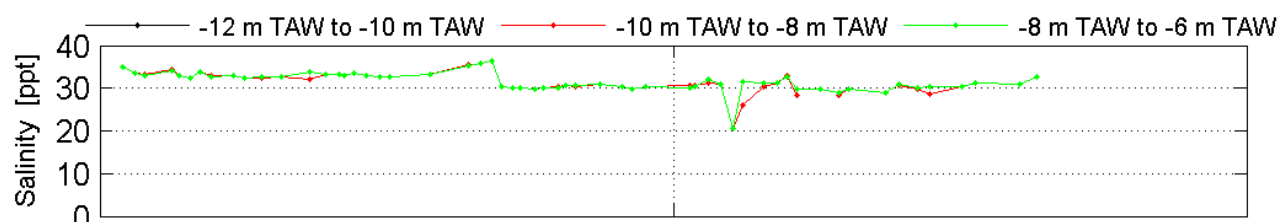
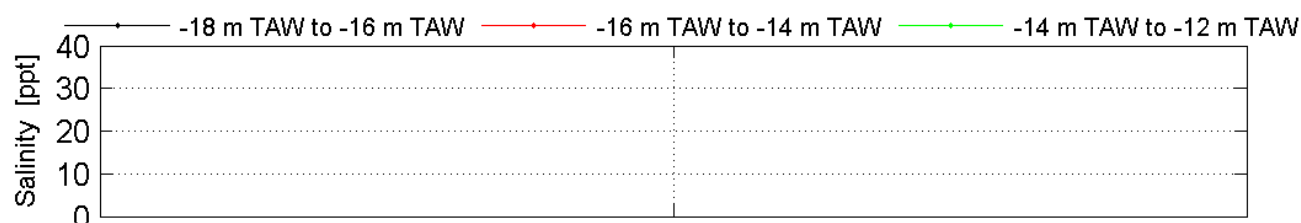
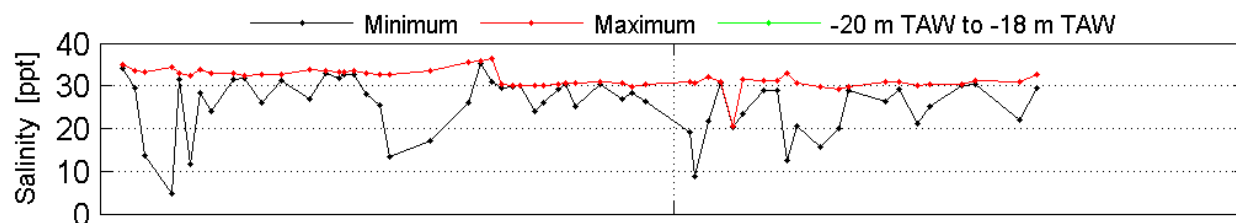
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 10

Processed by:



Location:

In Association with:

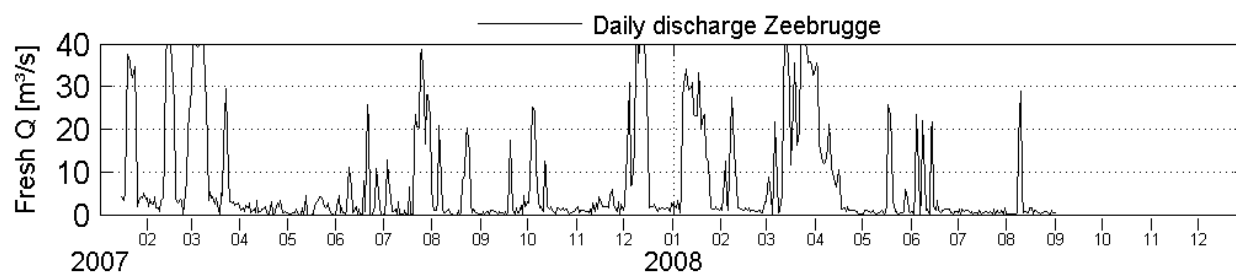
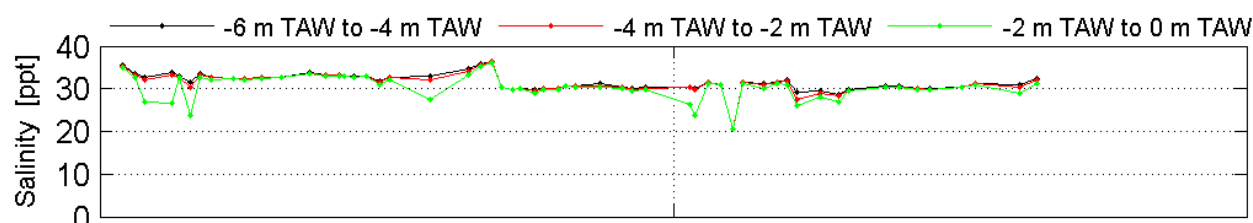
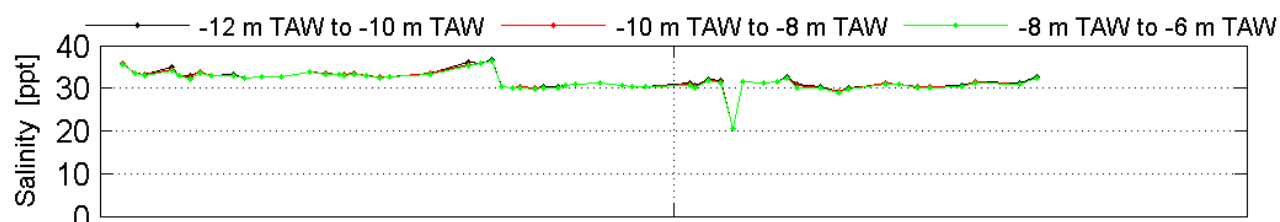
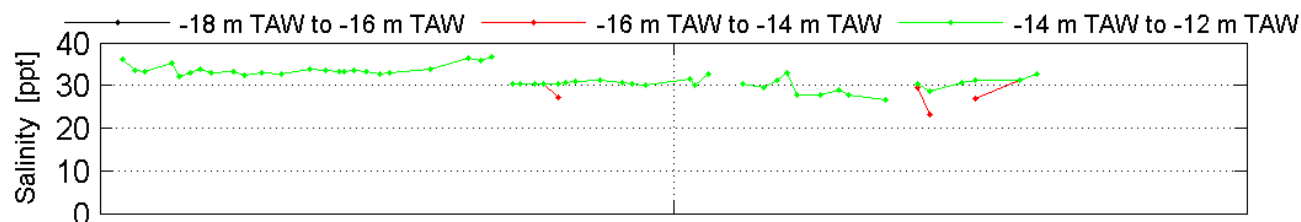
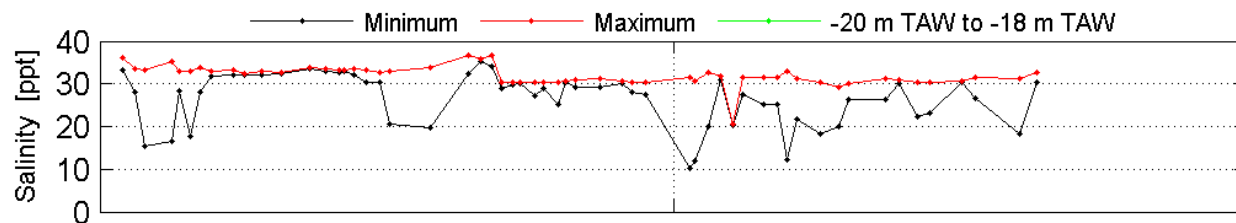


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 11

Processed by:



In Association with:



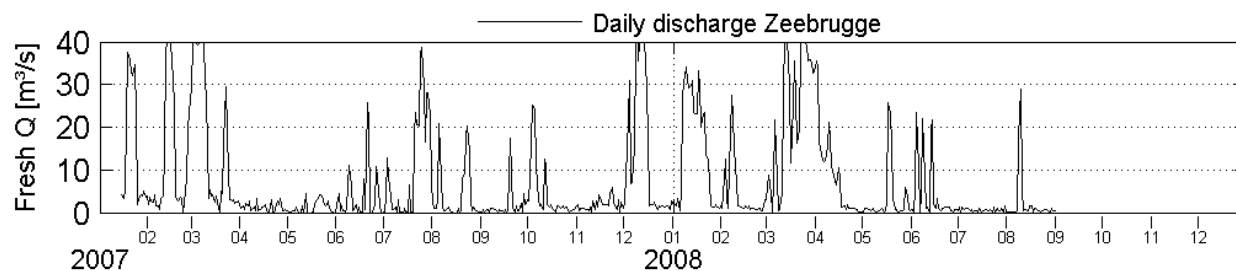
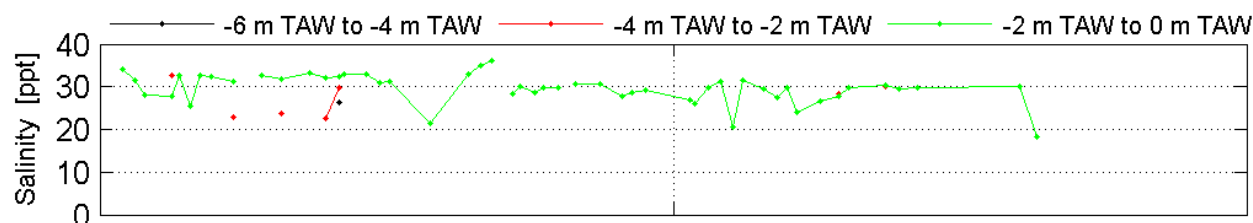
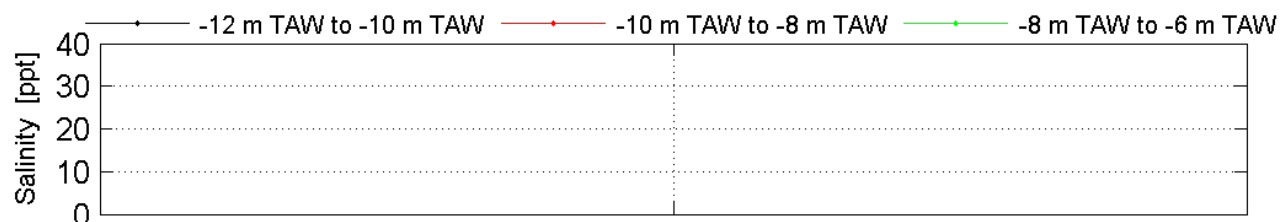
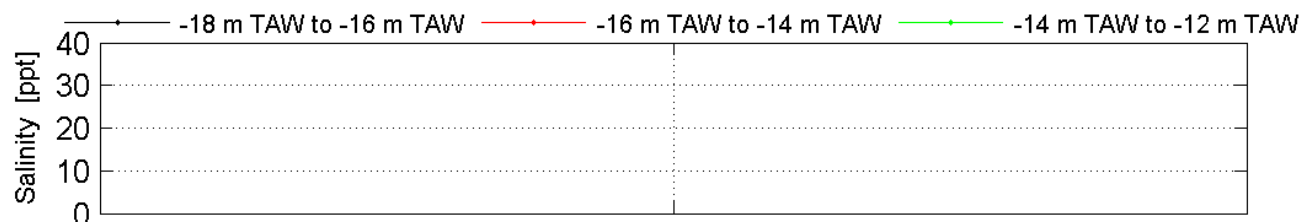
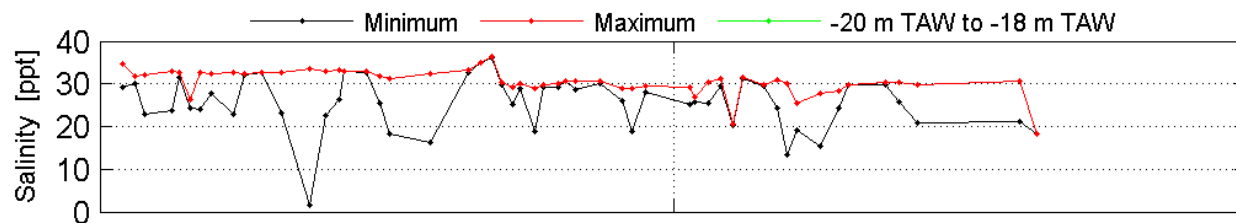
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 12

Processed by:



Location:

In Association with:

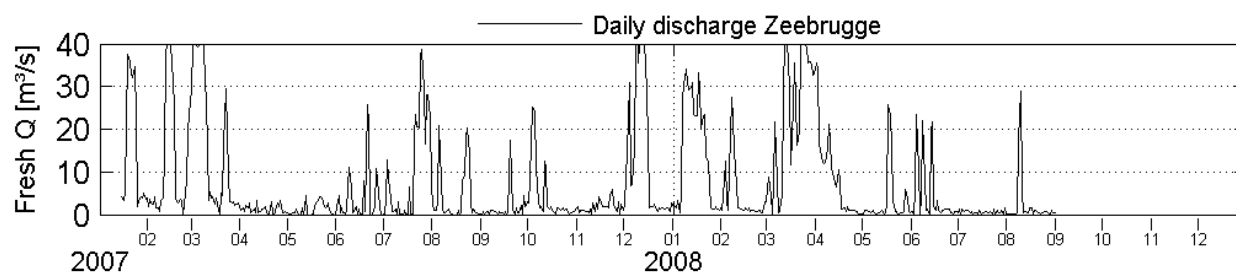
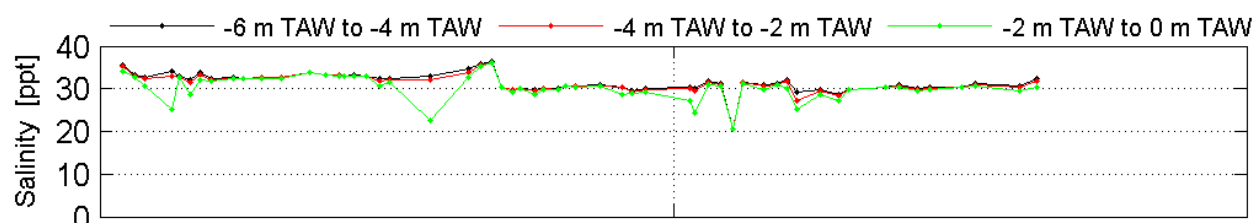
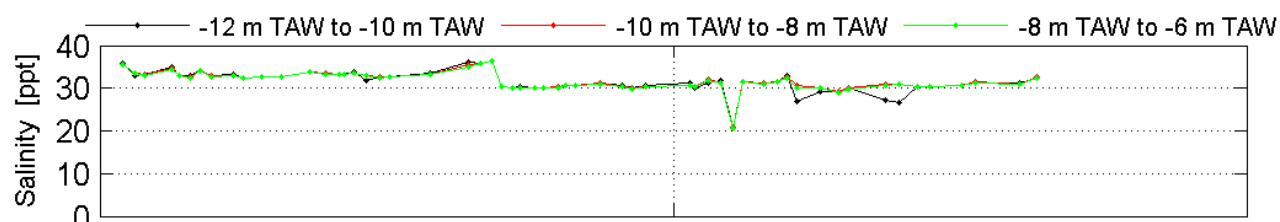
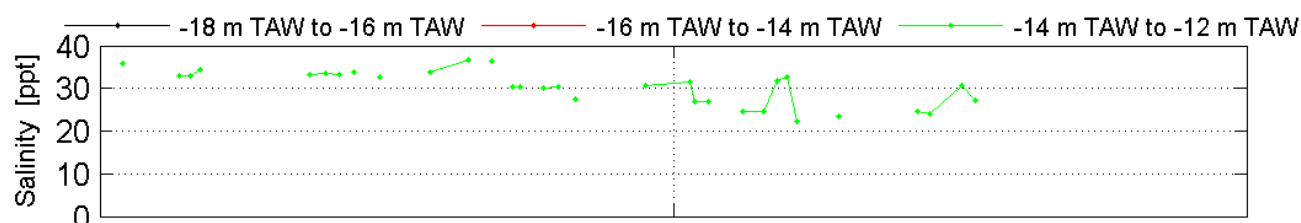
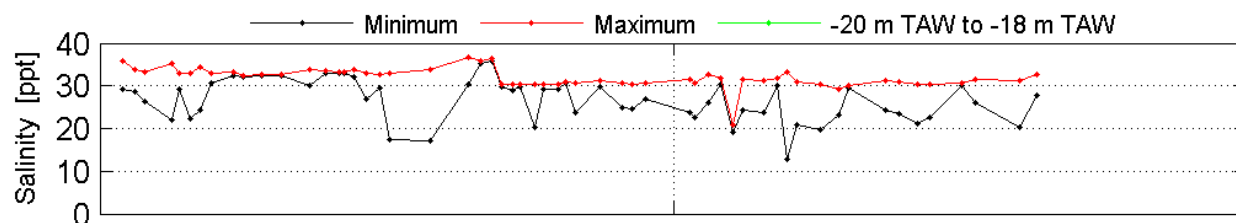


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 13

Processed by:



Location:

Port of Zeebrugge

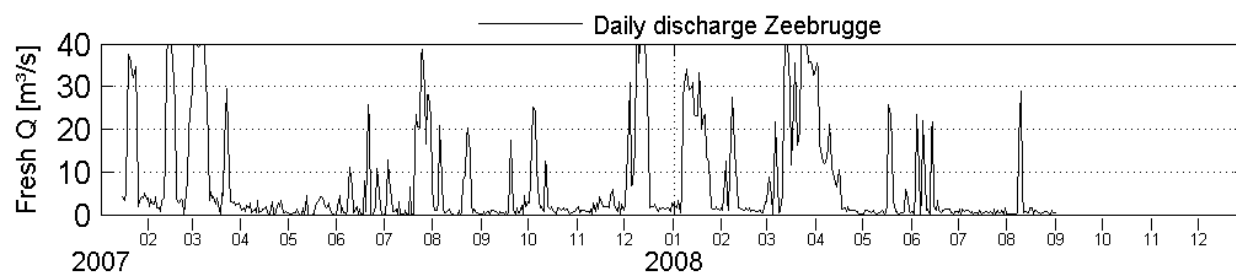
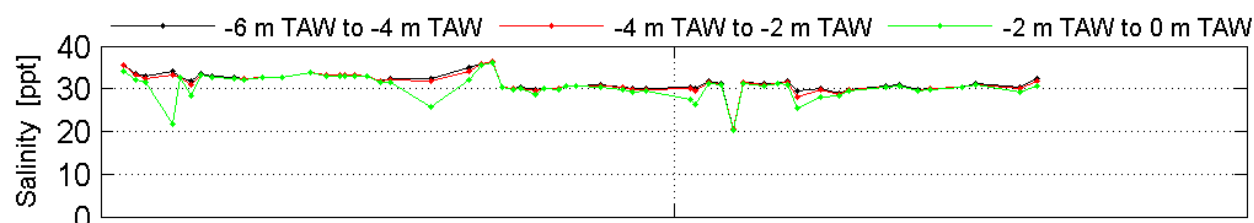
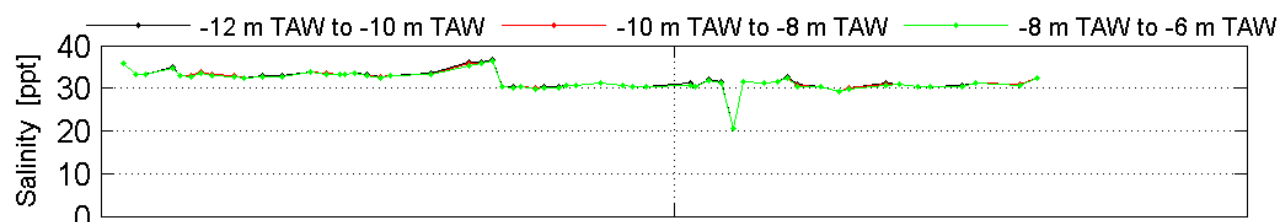
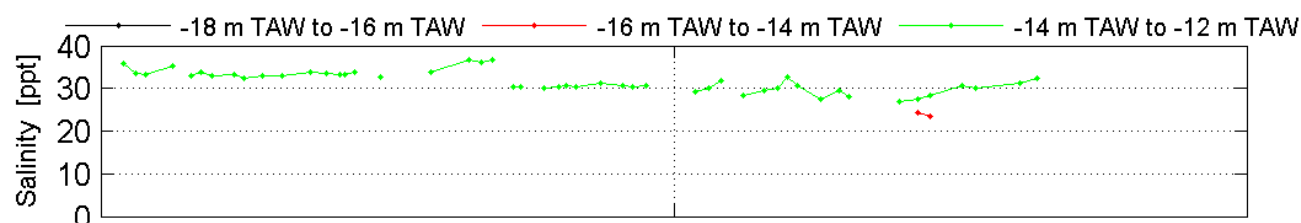
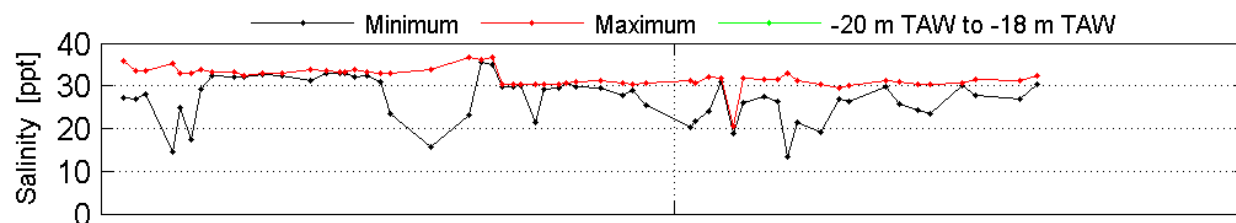
In Association with:



I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 14

Processed by:



Location:

In Association with:



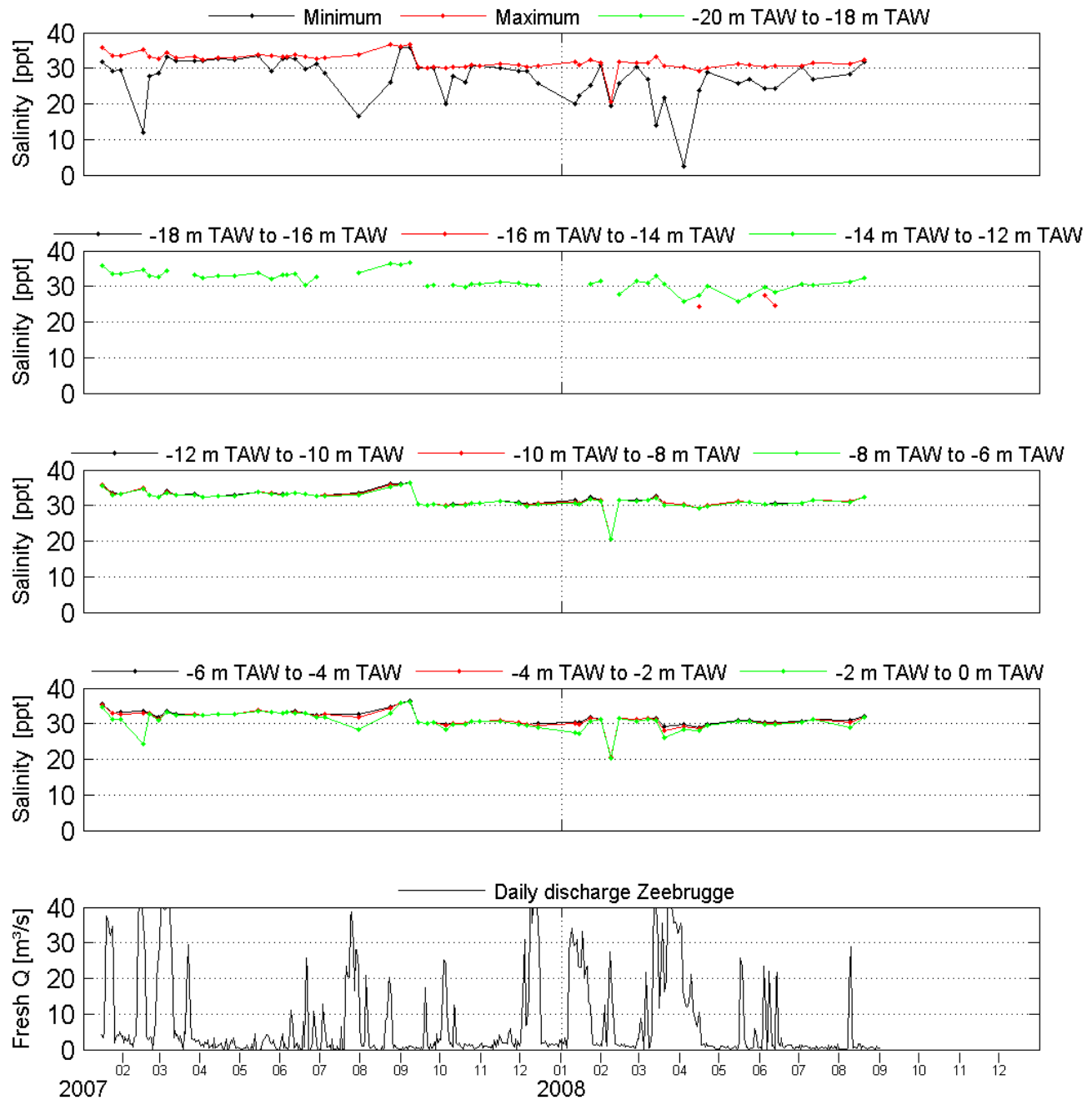
Port of Zeebrugge

I/RA/11292/10.123/BQU



# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 15

Processed by:



In Association with:



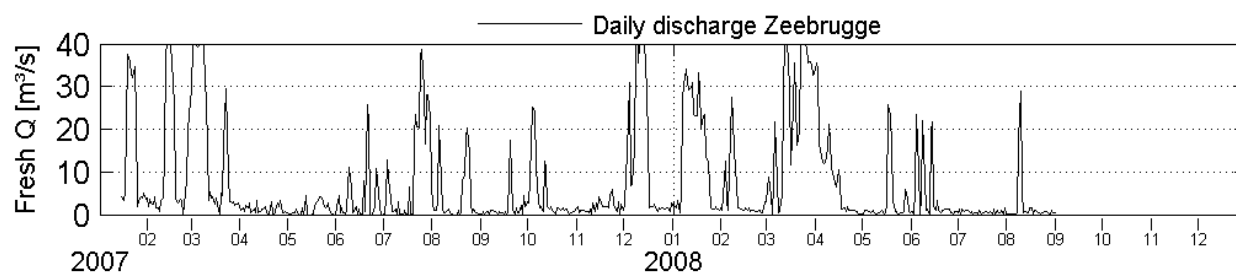
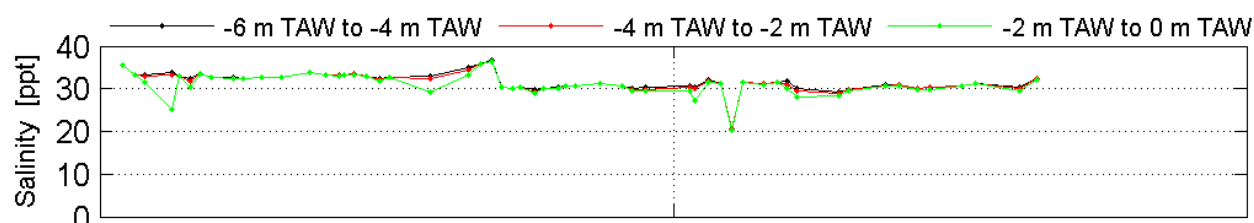
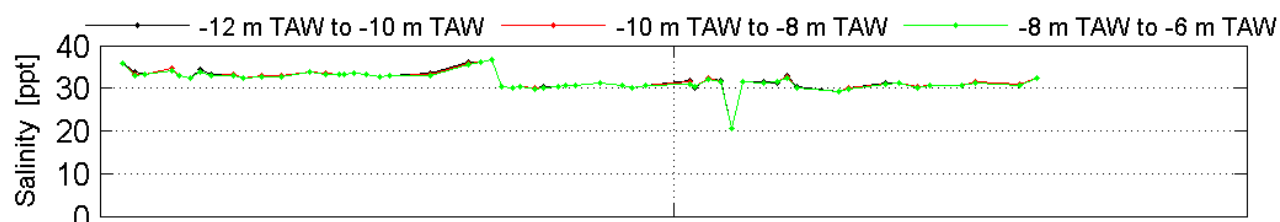
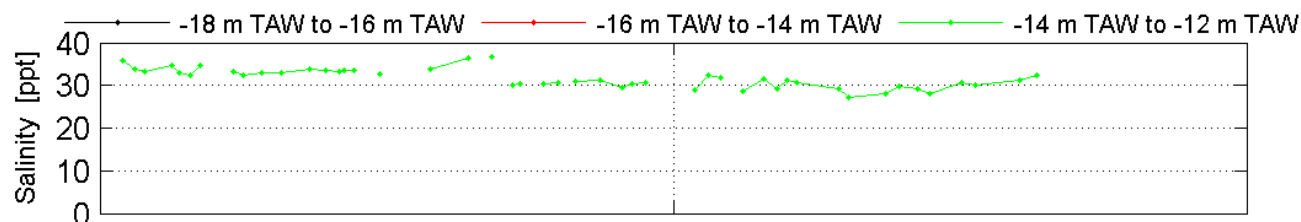
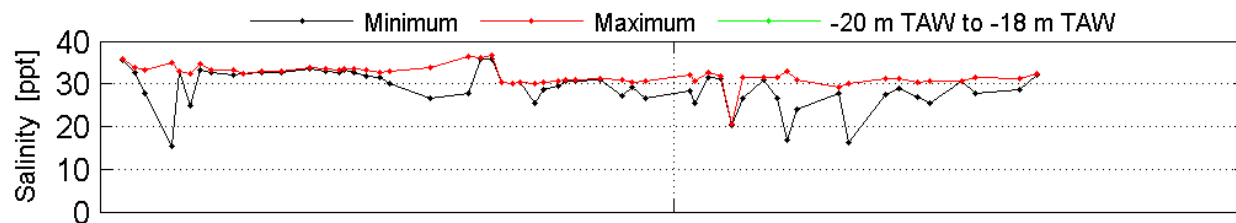
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 16

Processed by:



Location:

In Association with:

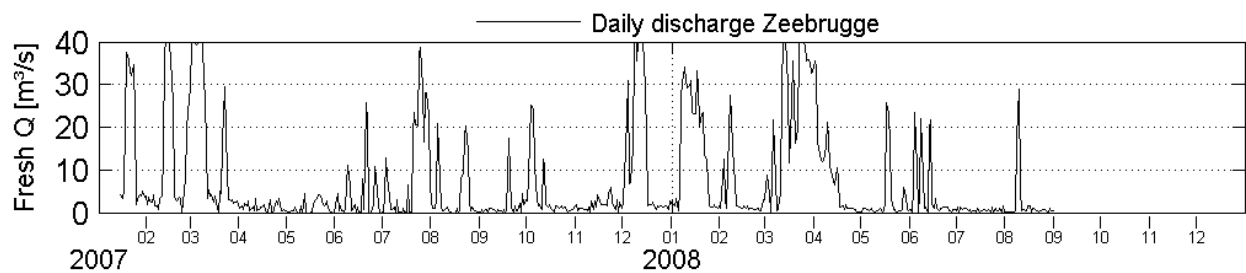
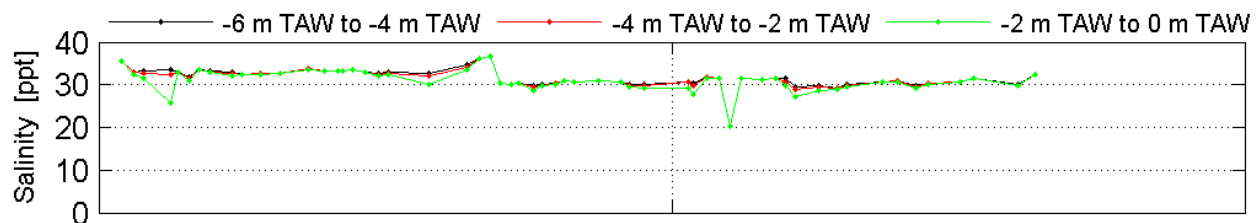
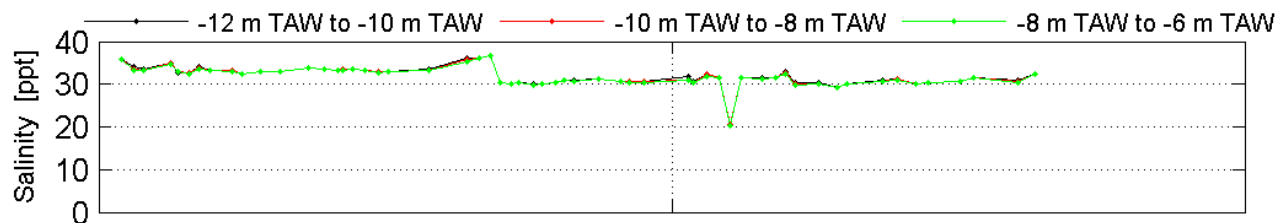
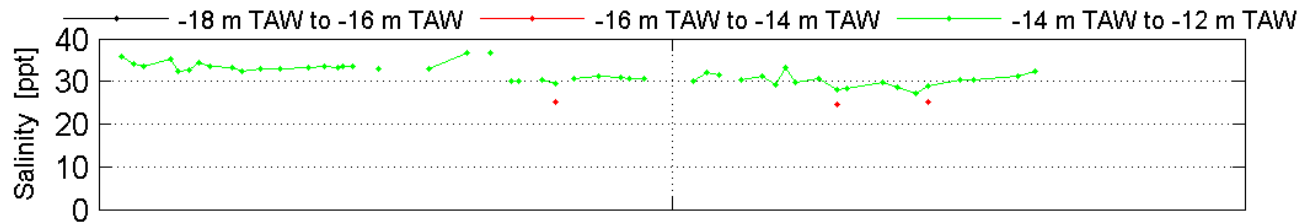
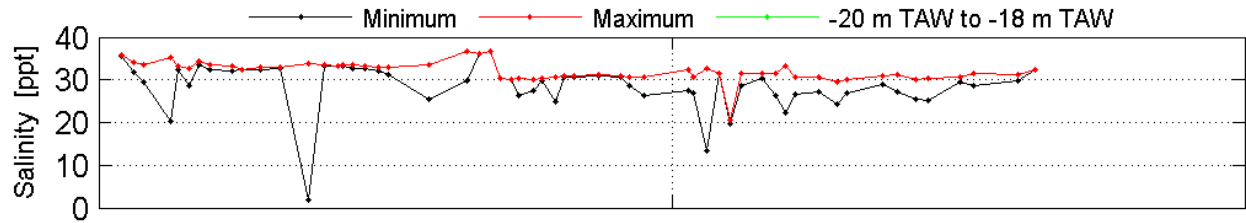


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 17

Processed by:



Location:

In Association with:

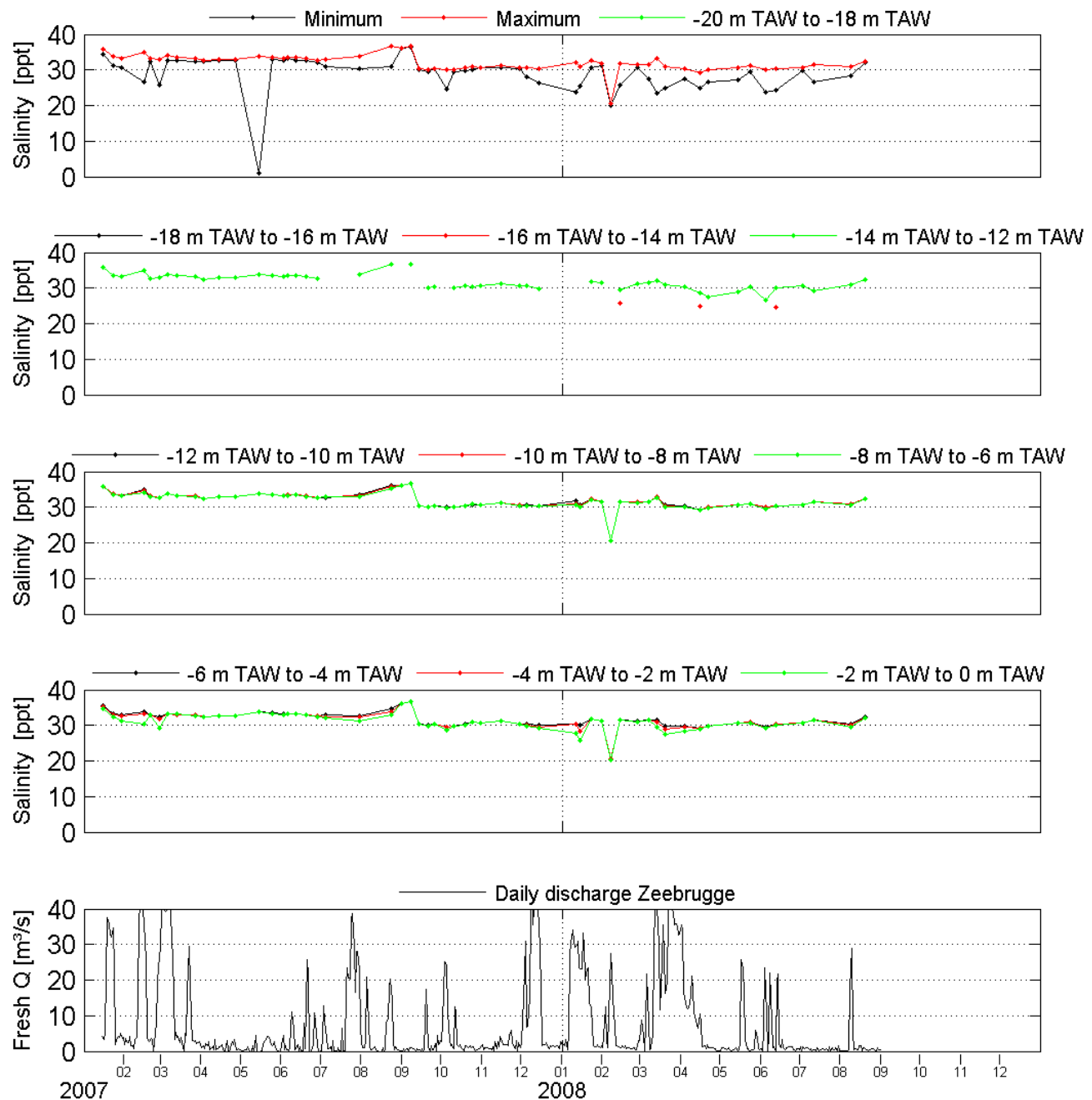


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 18

Processed by:



In Association with:



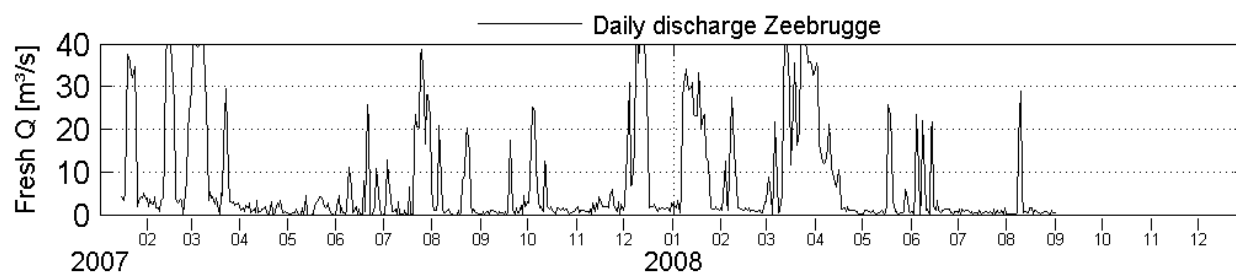
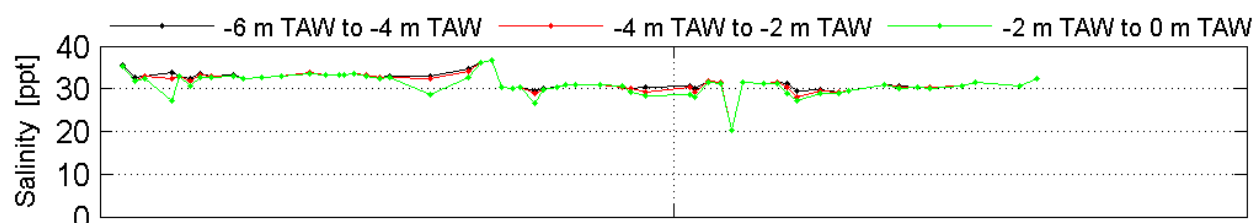
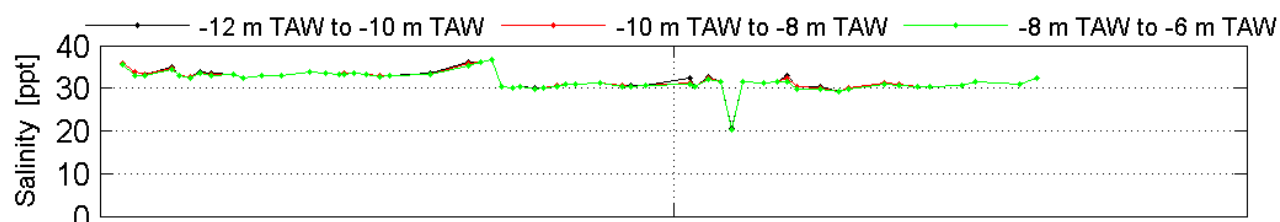
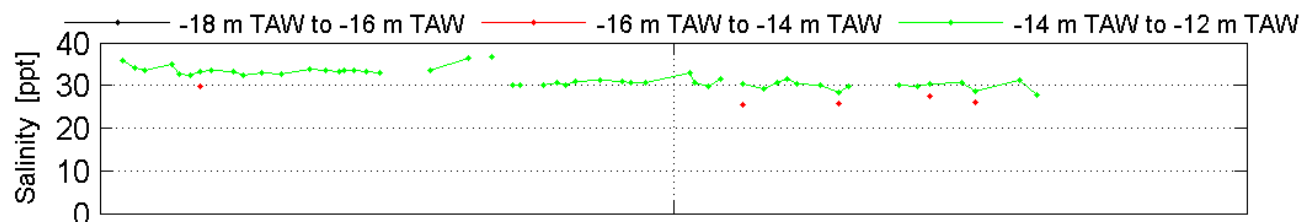
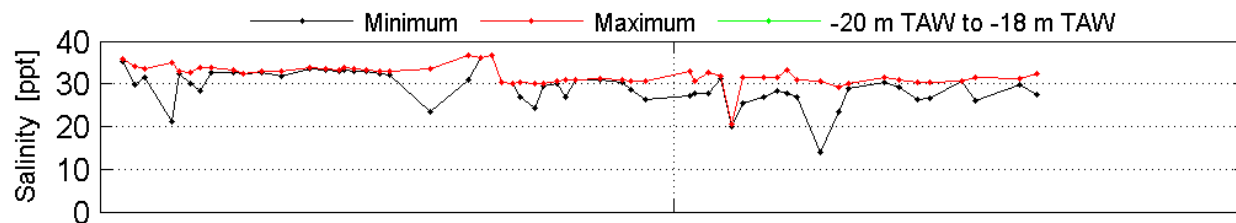
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 19

Processed by:



In Association with:



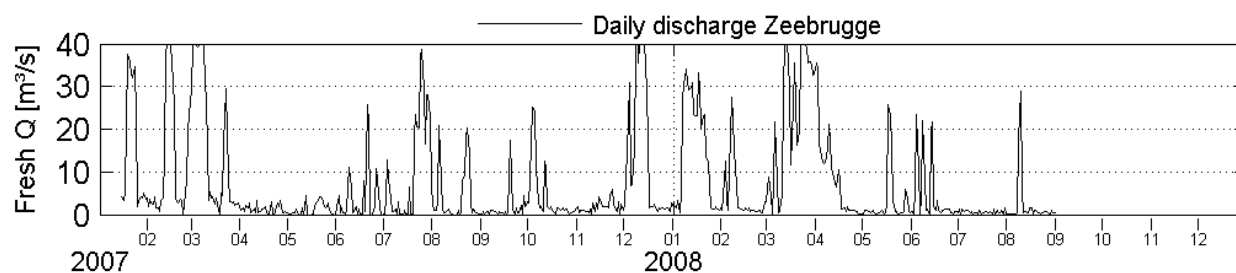
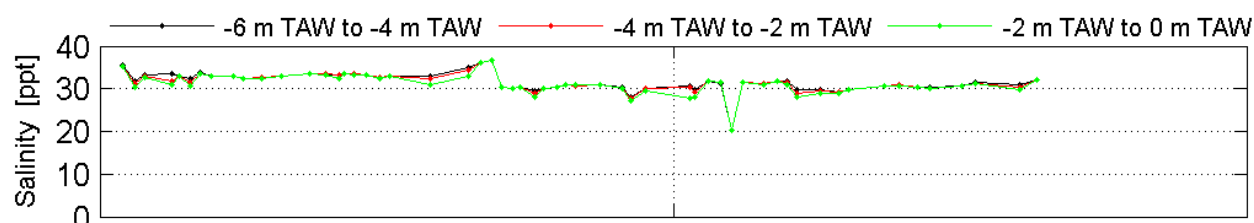
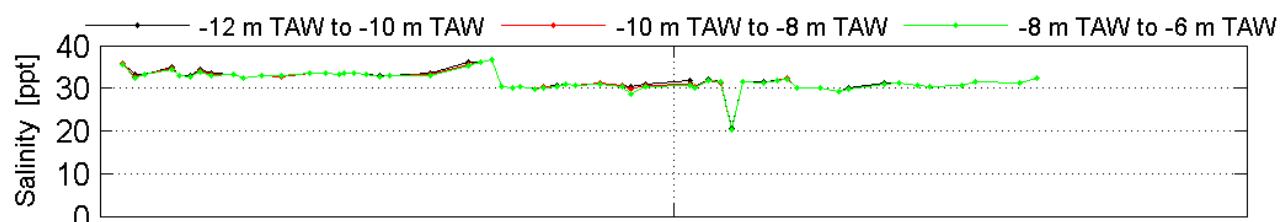
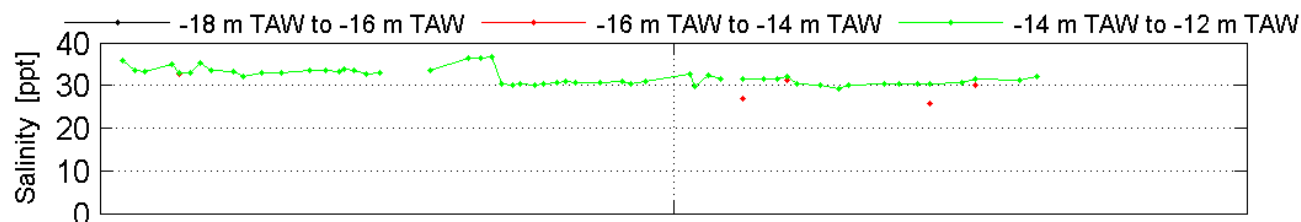
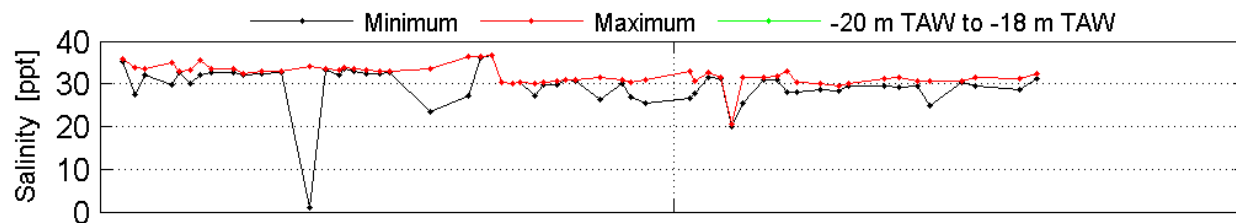
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 20

Processed by:



In Association with:



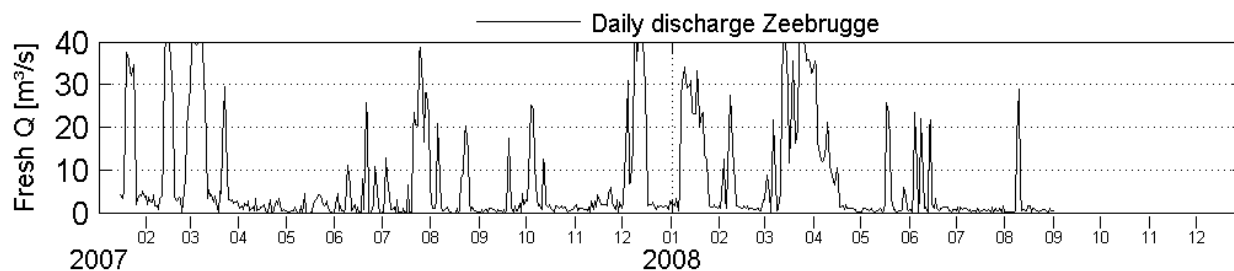
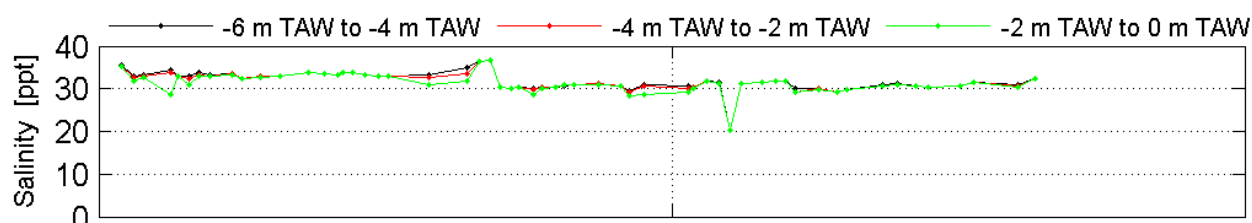
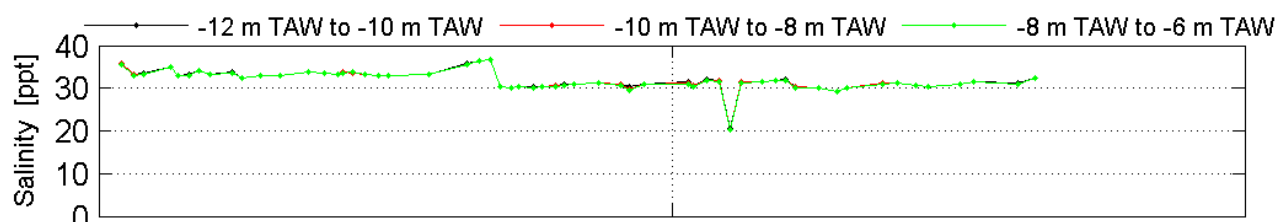
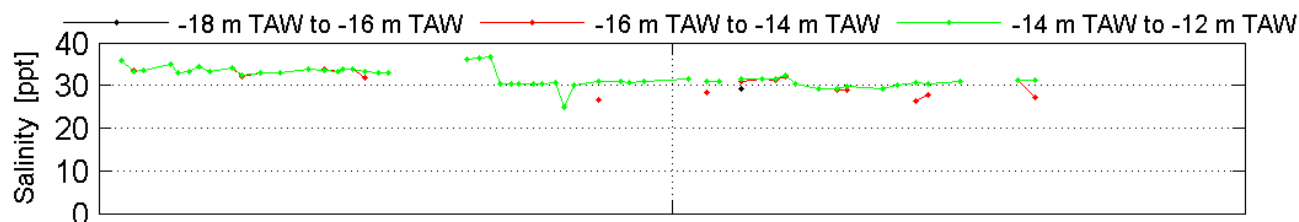
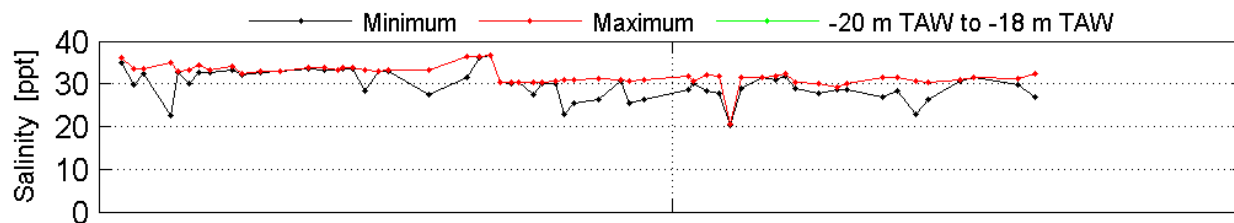
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 21

Processed by:



Location:

In Association with:

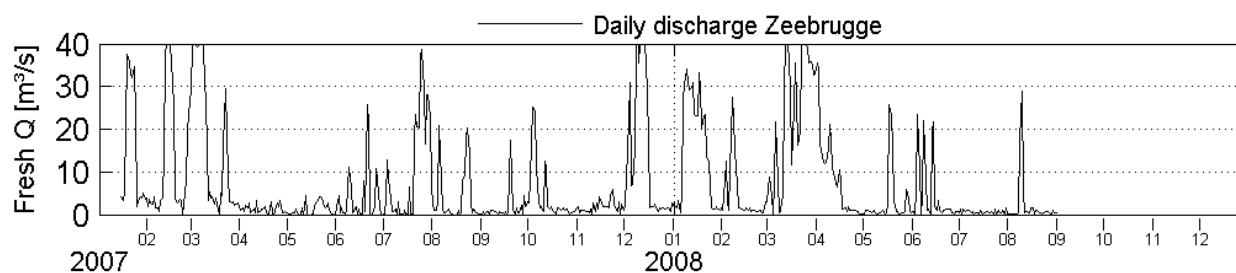
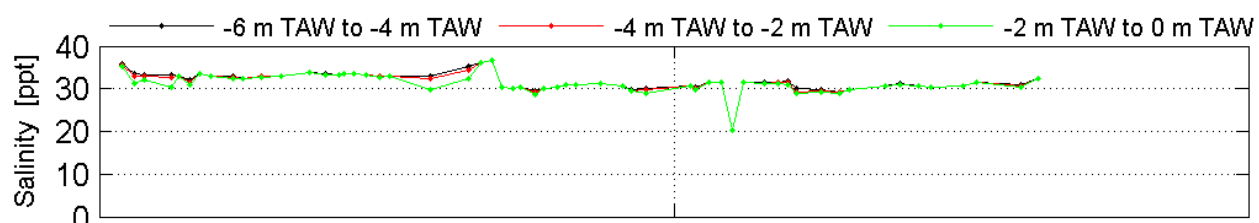
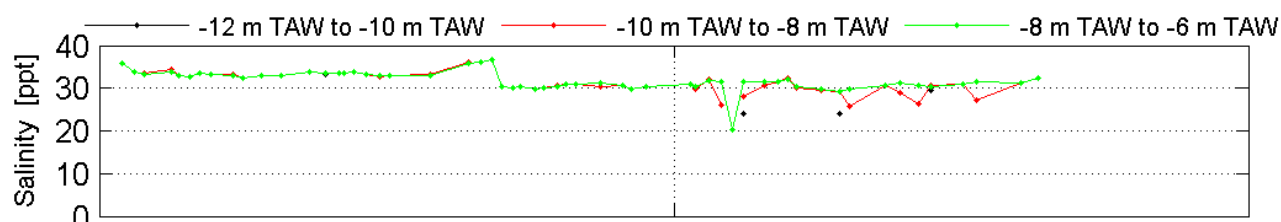
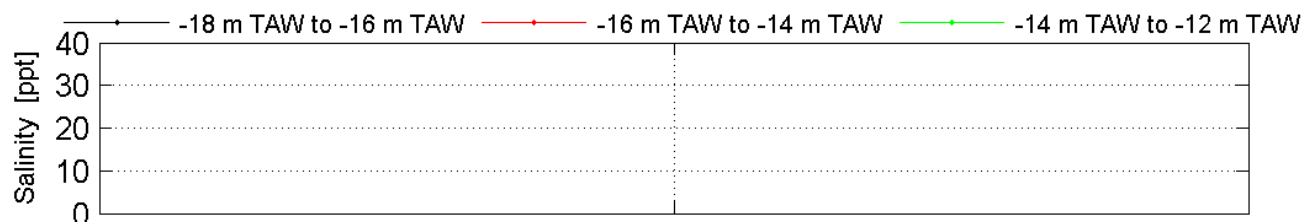
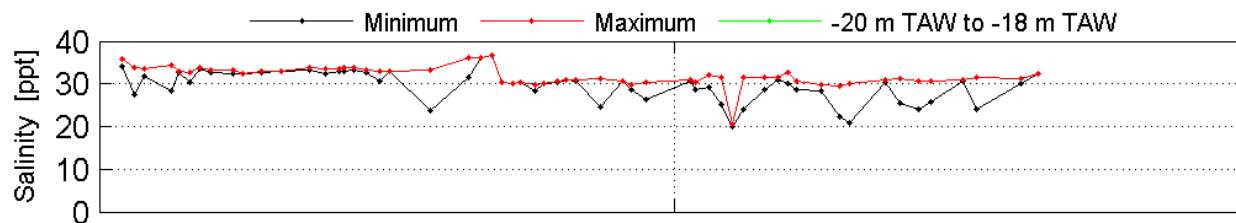


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 22

Processed by:



Location:

In Association with:



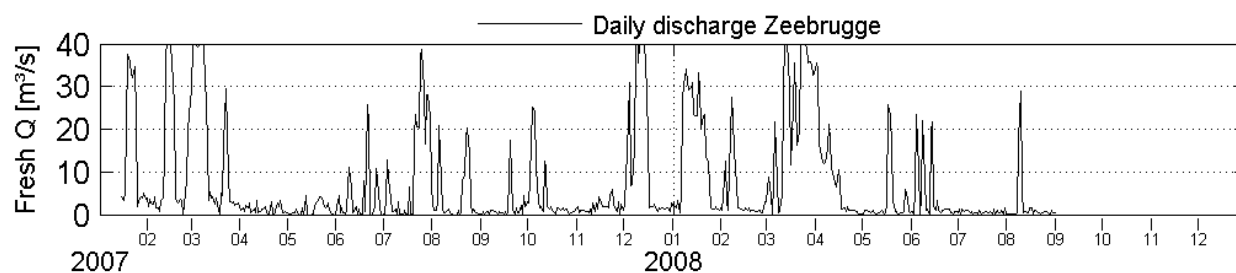
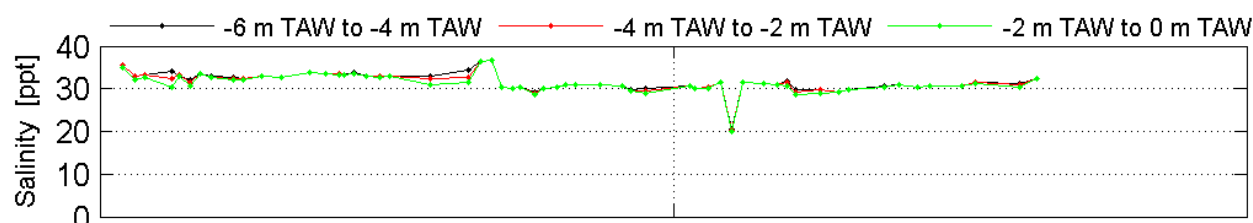
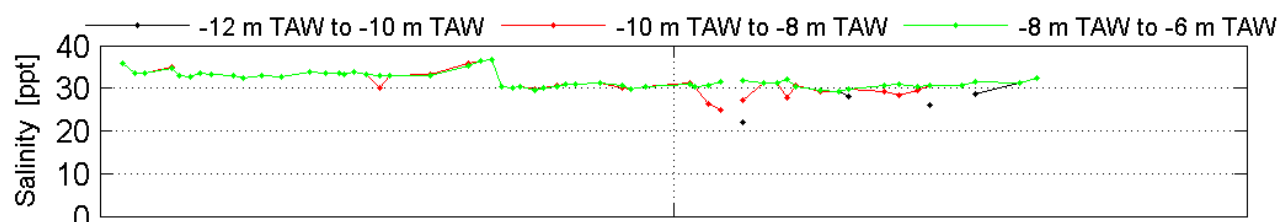
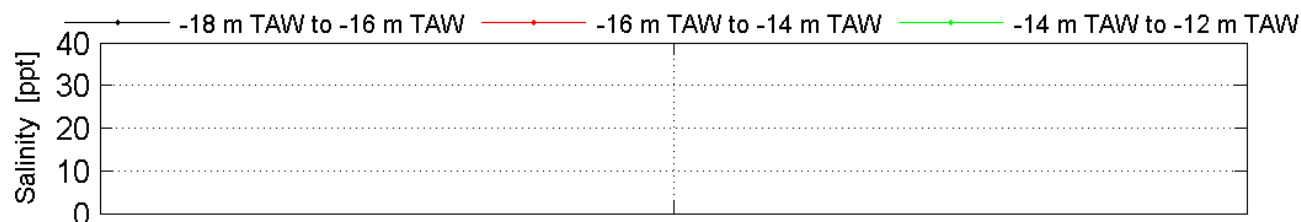
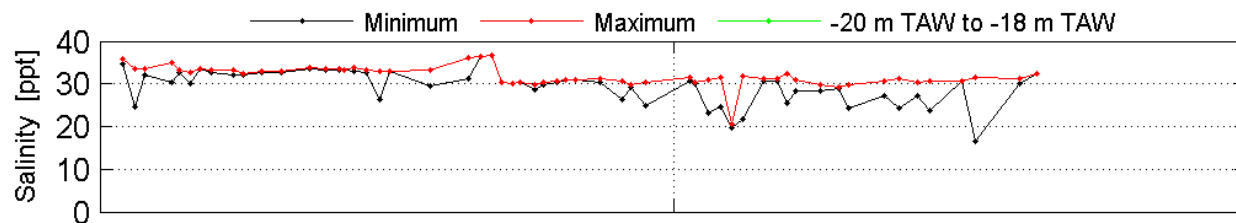
Port of Zeebrugge

I/RA/11292/10.123/BQU



# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 23

Processed by:



In Association with:



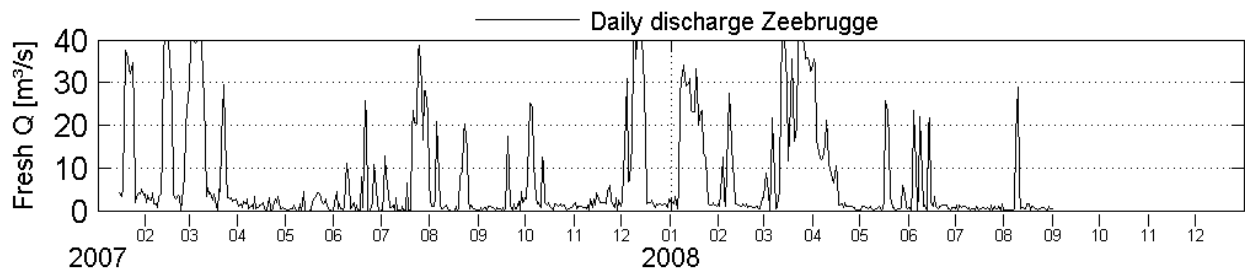
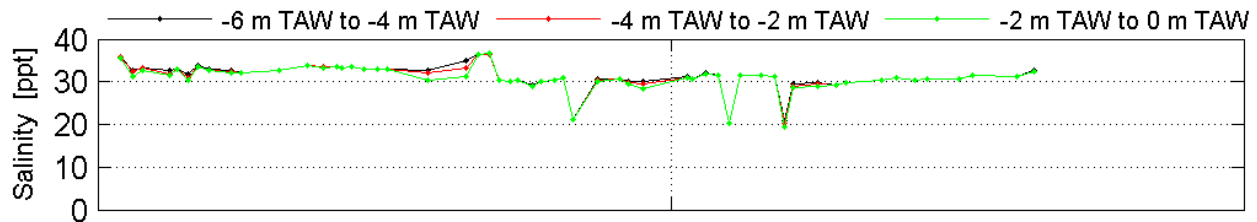
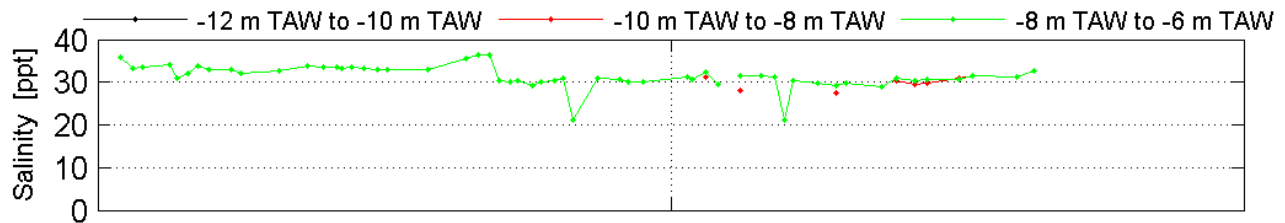
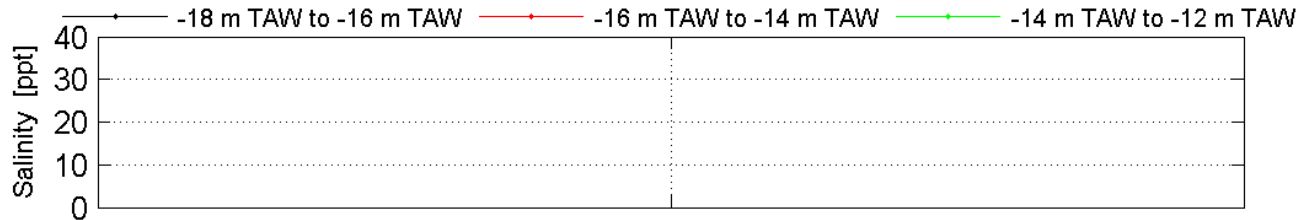
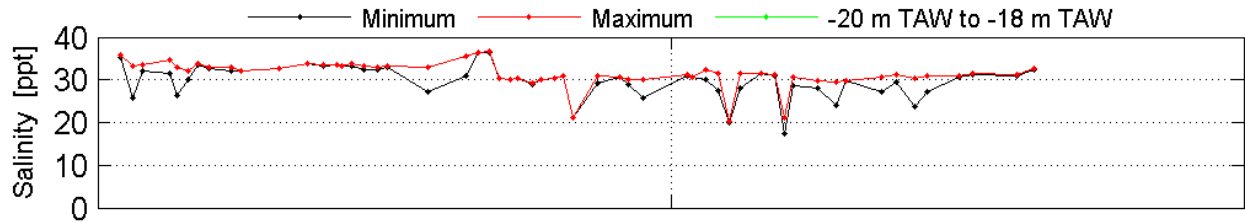
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 24

Processed by:



Location:

In Association with:

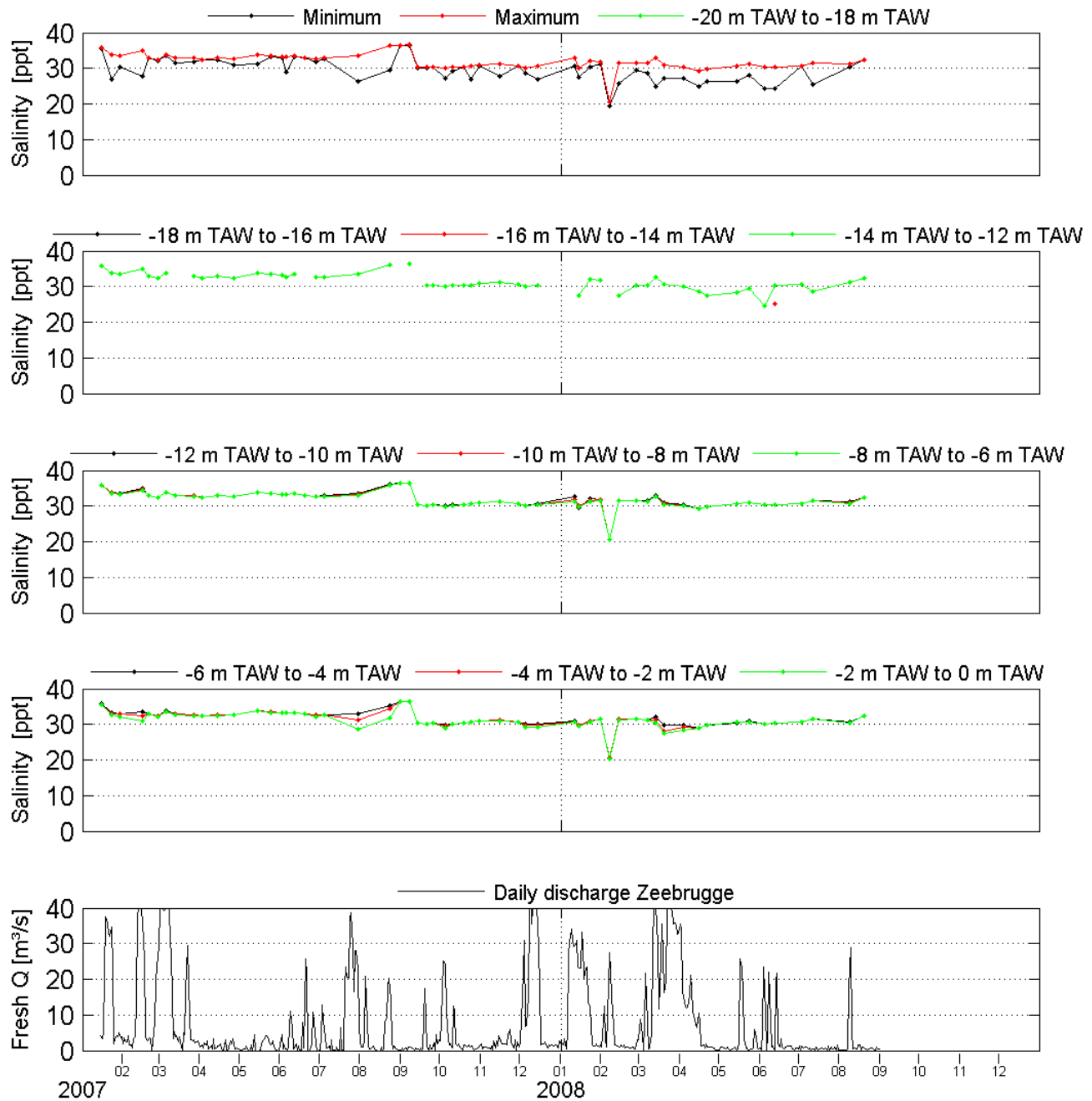


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 25

Processed by:



In Association with:



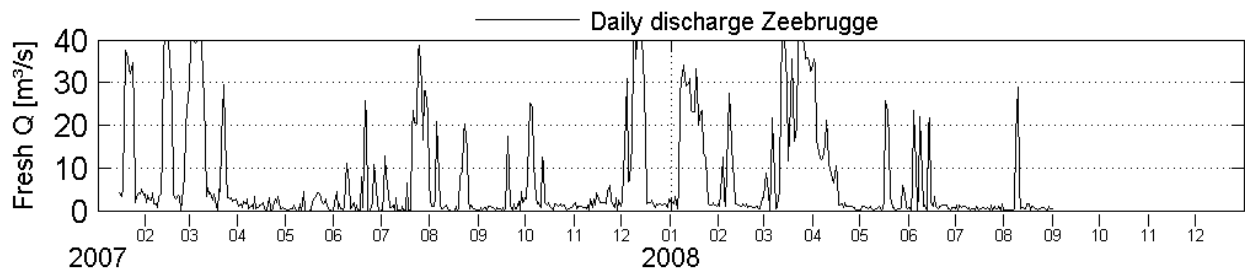
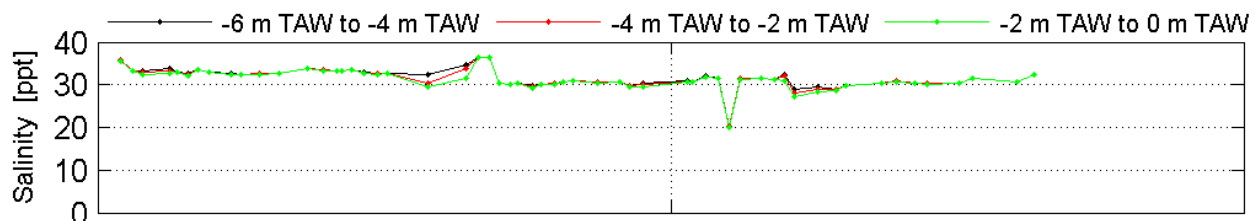
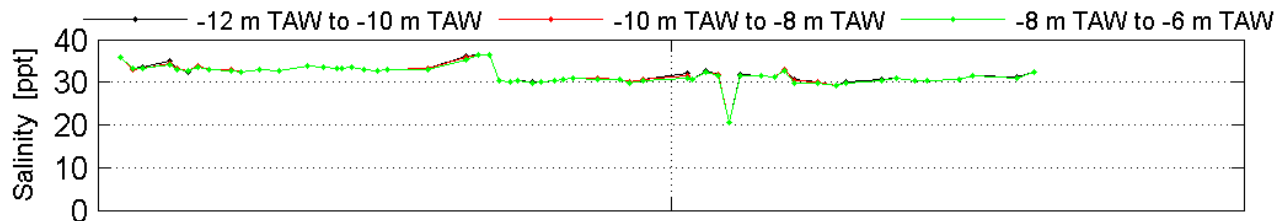
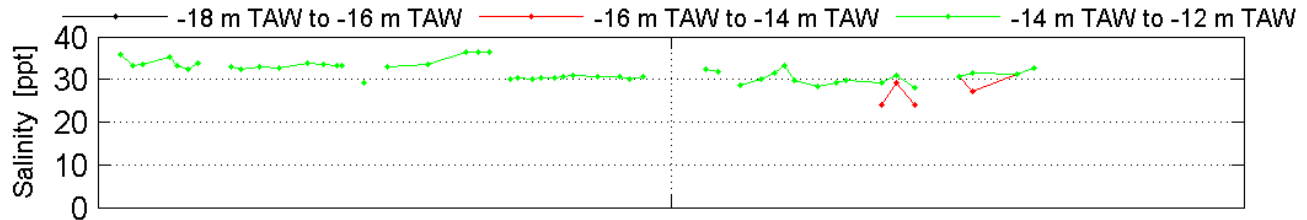
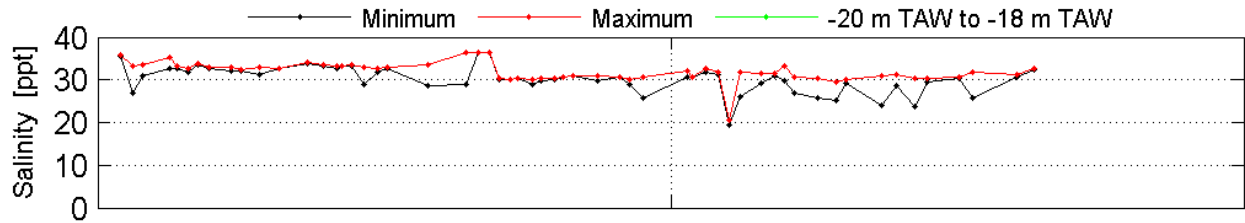
Location:

Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 26

Processed by:



Location:

In Association with:

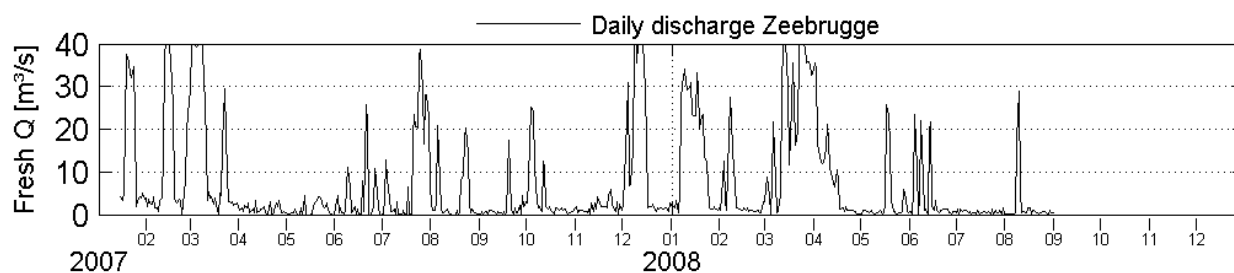
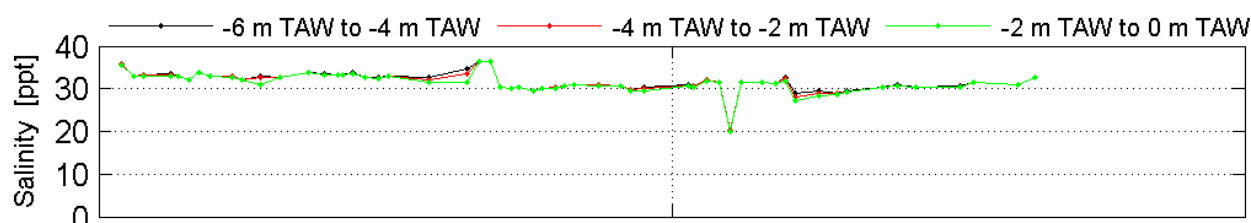
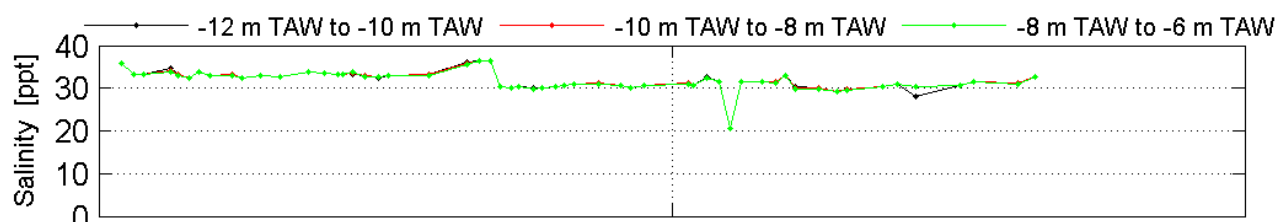
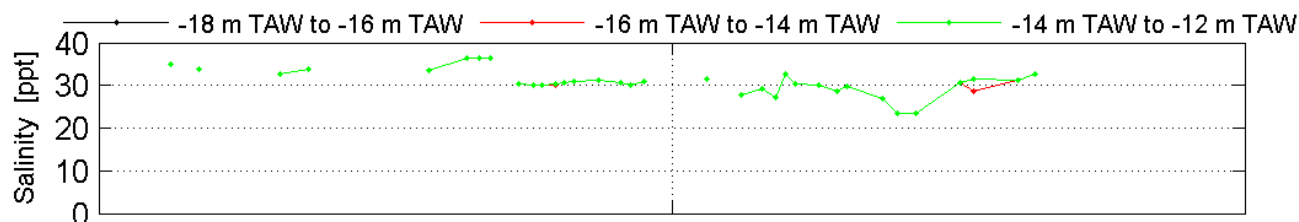
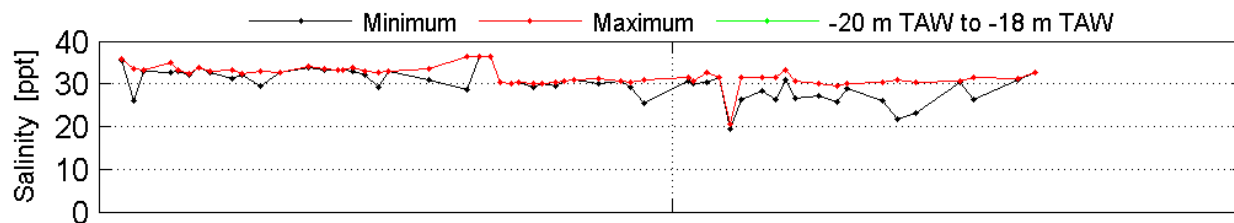


Port of Zeebrugge

I/RA/11292/10.123/BQU

# 11292 - Zoutmetingen Zeebrugge

01-Jan-2007 until 30-Dec-2008



Salinity data Location 27

Processed by:



Location:

Port of Zeebrugge

In Association with:



I/RA/11292/10.123/BQU

